

CALENDAR OF THE
UNIVERSITY
OF
ALBERTA

EDMONTON



SESSION 1927-28

THE
UNIVERSITY OF ALBERTA
CALENDAR 1927-28



EDMONTON



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1927

CALENDAR

1927

JANUARY		FEBRUARY		MARCH		APRIL	
Sun. . . .	2 9 16 23 30	Sun.	6 13 20 27	Sun.	6 13 20 27	Sun.	3 10 17 24
Mon. . . .	3 10 17 24 31	Mon.	7 14 21 28	Mon.	7 14 21 28	Mon.	4 11 18 25
Tues. . . .	4 11 18 25	Tues.	1 8 15 22	Tues.	1 8 15 22 29	Tues.	5 12 19 26
Wed. . . .	5 12 19 26	Wed.	2 9 16 23	Wed.	2 9 16 23 30	Wed.	6 13 20 27
Thur. . . .	6 13 20 27	Thur.	3 10 17 24	Thur.	3 10 17 24 31	Thur.	7 14 21 28
Fri.	7 14 21 28	Fri.	4 11 18 25	Fri.	4 11 18 25	Fri.	1 8 15 22 29
Sat.	1 8 15 22 29	Sat.	5 12 19 26	Sat.	5 12 19 26	Sat.	2 9 16 23 30
MAY		JUNE		JULY		AUGUST	
Sun.	1 8 15 22 29	Sun.	5 12 19 26	Sun.	3 10 17 24 31	Sun.	7 14 21 28
Mon.	2 9 16 23 30	Mon.	6 13 20 27	Mon.	4 11 18 25	Mon.	1 8 15 22 29
Tues.	3 10 17 24 31	Tues.	7 14 21 28	Tues.	5 12 19 26	Tues.	2 9 16 23 30
Wed.	4 11 18 25	Wed.	1 8 15 22 29	Wed.	6 13 20 27	Wed.	3 10 17 24 31
Thur.	5 12 19 26	Thur.	2 9 16 23 30	Thur.	7 14 21 28	Thur.	4 11 18 25
Fri.	6 13 20 27	Fri.	3 10 17 24	Fri.	1 8 15 22 29	Fri.	5 12 19 26
Sat.	7 14 21 28	Sat.	4 11 18 25	Sat.	2 9 16 23 30	Sat.	6 13 20 27
SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
Sun.	4 11 18 25	Sun.	2 9 16 23 30	Sun.	6 13 20 27	Sun.	4 11 18 25
Mon.	5 12 19 26	Mon.	3 10 17 24 31	Mon.	7 14 21 28	Mon.	5 12 19 26
Tues.	6 13 20 27	Tues.	4 11 18 25	Tues.	1 8 15 22 29	Tues.	6 13 20 27
Wed.	7 14 21 28	Wed.	5 12 19 26	Wed.	2 9 16 23 30	Wed.	7 14 21 28
Thur.	1 8 15 22 29	Thur.	6 13 20 27	Thur.	3 10 17 24	Thur.	1 8 15 22 29
Fri.	2 9 16 23 30	Fri.	7 14 21 28	Fri.	4 11 18 25	Fri.	2 9 16 23 30
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Sun.	1 8 15 22 29	Sun.	5 12 19 26	Sun.	4 11 18 25	Sun.	1 8 15 22 29
Mon.	2 9 16 23 30	Mon.	6 13 20 27	Mon.	5 12 19 26	Mon.	2 9 16 23 30
Tues.	3 10 17 24 31	Tues.	7 14 21 28	Tues.	6 13 20 27	Tues.	3 10 17 24
Wed.	4 11 18 25	Wed.	1 8 15 22 29	Wed.	7 14 21 28	Wed.	4 11 18 25
Thur.	5 12 19 26	Thur.	2 9 16 23	Thur.	1 8 15 22 29	Thur.	5 12 19 26
Fri.	6 13 20 27	Fri.	3 10 17 24	Fri.	2 9 16 23 30	Fri.	6 13 20 27
Sat.	7 14 21 28	Sat.	4 11 18 25	Sat.	3 10 17 24 31	Sat.	7 14 21 28
MAY		JUNE		JULY		AUGUST	
Sun.	6 13 20 27	Sun.	3 10 17 24	Sun.	1 8 15 22 29	Sun.	5 12 19 26
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Tues.	1 8 15 22 29	Tues.	5 12 19 26	Tues.	3 10 17 24 31	Tues.	7 14 21 28
Wed.	2 9 16 23 30	Wed.	6 13 20 27	Wed.	4 11 18 25	Wed.	1 8 15 22 29
Thur.	3 10 17 24 31	Thur.	7 14 21 28	Thur.	5 12 19 26	Thur.	2 9 16 23 30
Fri.	4 11 18 25	Fri.	1 8 15 22 29	Fri.	6 13 20 27	Fri.	3 10 17 24 31
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SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER	
Sun.	2 9 16 23 30	Sun.	7 14 21 28	Sun.	4 11 18 25	Sun.	2 9 16 23 30
Mon.	3 10 17 24	Mon.	1 8 15 22 29	Mon.	5 12 19 26	Mon.	3 10 17 24 31
Tues.	4 11 18 25	Tues.	2 9 16 23 30	Tues.	6 13 20 27	Tues.	4 11 18 25
Wed.	5 12 19 26	Wed.	3 10 17 24 31	Wed.	7 14 21 28	Wed.	5 12 19 26
Thurs. . . .	6 13 20 27	Thurs. . . .	4 11 18 25	Thurs. . . .	1 8 15 22 29	Thurs. . . .	6 13 20 27
Fri.	7 14 21 28	Fri.	5 12 19 26	Fri.	2 9 16 23 30	Fri.	7 14 21 28
Sat.	1 8 15 22 29	Sat.	6 13 20 27	Sat.	3 10 17 24	Sat.	1 8 15 22 29

TIME TABLE—FACULTY OF ARTS AND SCIENCES, 1927-28

(B.A., B.Sc. in Arts; First, Third and Fourth Years B.Sc. in H.Ec.; B.Sc. in Pharm.; B. Com.)

including

[First Year Engineering, First Year B.Sc. in Nursing, Third and Fourth Years B.H.Ec.]

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8.30	Germ A (A) Lat A (A) Eng 1 (A) Fr 5—4 (A) *Math 2 Chem 58 Eng 57	Fr A Germ A (B) Math 1 (A) Phil 2 Chem 51 Ent 61 Geol 58 Hist 53 H Ec 55 lab Math 57 Math 62	Germ A (A) Lat A (A) Eng 1 (A) Fr 5—4 (A) Lat 36 2nd term *Math 2 Chem 58 Eng 57 H Ec 55	Fr A Germ A (B) Math 1 (A) Phil 2 Chem 51 Ent 61 Geol 58 Hist 53 H Ec 57 lab Math 57 Math 62	Germ A (A) Lat A (A) Eng 1 (A) Fr 5—4 (A) *Math 2 Chem 58 Eng 57 H Ec 55	Fr A Germ A (B) Fr 1—3 (C) Math 1 (A) Phil 2 Chem 51 Ent 61 Geol 58 Hist 53 H Ec 55 lab Math 57 Math 62
9.30	Eng 1 (B) Phys 1 (A) Eng 2 German 2—4 Grk 2—4 Geol 33 1st term Pol Ec 10 2nd term Chem 52 Fr 54 Geol 55 H Ec 51 Hist 58 Phys 54 Pol Ec 69 2nd term Psych 52	Fr 1—3 (E) Phys 1 (B) Chem 1 *Math 2 Phys 3 Anc Hist 52 Geol 54 Germ 54 H Ec 55 lab Fr 54 Mat Med 52 Phil 51 Physiol 62 Psych 56 Pol Ec 69 2nd term Psych 52	Eng 1 (B) Phys 1 (A) Eng 2 Germ 2—4 Grk 2—4 Geol 33 1st term Pol Ec 10 2nd term Chem 52 Fr 54 Geol 55 H Ec 51 Hist 58 Phys 54 Pol Ec 69 2nd term Psych 52	Fr 1—3 (E) Phys 1 (B) Chem 1 *Math 2 Phys 3 Anc Hist 52 Geol 54 Germ 54 H Ec 57 lab Mat Med 52 Phil 54 Physiol 62 Psych 56 Pol Ec 69 2nd term Psych 52	Eng 1 (B) Phys 1 (A) Eng 2 Germ 2—4 Grk 2—4 Geol 33 1st term Pol Ec 10 2nd term Chem 52 Fr 54 Geol 55 H Ec 51 Hist 58 Phys 54 Pharm 55 lab Psych 52	Fr 1—3 (E) Phys 1 (B) Chem 1 *Math 2 Phys 3 Anc Hist 52 Geol 54 Germ 54 H Ec 55 lab Mat Med 52 Pharm 51 Phil 54 Psych 56
10.30	Lat A (B) Eng 1 (D) Eng 1 (F) Fr 1—3 (A) Germ 1—3 (A) Fr 5—4 (B) Phys 8 Pol Ec 1 Geol 53 H Ec 52 H Ec 56 Hist 57 Math 55 Mat Med 51 Phil 51 Physiol 60 & 61	Hist 1 Acc'y 1 Bot 1 Lat 2—4 Phys 6 *Chem 54 †Comp Lit 51 Eng 52 H Ec 57 lab Mat Med 51 Phil 53 Pol Ec 64 Geol 53 H Ec 52 Hygiene 51 1st term Hist 57 Math 55 Phil 51 Physiol 60 & 61	Lat A (B) Eng 1 (D) Eng 1 (F) Fr 1—3 (A) Germ 1—3 (A) Fr 5—4 (B) Phys 8 Pol Ec 1 Geol 53 H Ec 52 Hygiene 51 1st term Hist 57 Math 55 Phil 51 Physiol 60 & 61	Acc'y 1 Bot 1 Lat 2—4 Phys 6 Chem 54 †Comp Lit 51 Eng 52 H Ec 57 lab Mat Med 51 Phil 53 Pol Ec 64	Lat A (B) Eng 1 (D) Eng 1 (F) Fr 1—3 (A) Germ 1—3 (A) Fr 5—4 (B) Phys 8 Pol Ec 1 Geol 53 H Ec 52 H Ec 56 Hist 57 Math 55 Pharm 52 Pharm 55 lab Phil 51 Physiol 60 & 61	Acc'y 1 Bot 1 Lat 2—4 Phys 6 Chem 54 †Comp Lit 51 Eng 52 Mat Med 51 Phil 53 Pol Ec 64
11.30	Eng 1 (C) Fr 1—3 (B) Lat 1—3 (A) Math 1 (B) Math 1 (C) Hist 2 Math 22 Acc'y 55 2nd term Bact 61 1st term Cl in Eng 51 Eng 59 Geol 51 Geol 51 Phys 57 Pol Ec 67 Pol Ec 73 1st term Psych 51	Lat A (C) *Fr 44 Germ 1—3 (B) *Germ 44 Lat 1—3 (B) Hist 3 Math 7 Phys 12 Zool 1 Biochem 61 Fr 52 Geol 51 H Ec 57 Phys 57 H Ec 58 1st term H Ec 58 2nd term Math 56 Phys 53	Eng 1 (C) Lat 1—3 (B) Lat 1—3 (A) Math 1 (B) Math 1 (C) Hist 2 Math 22 Acc'y 55 2nd term Cl in Eng 51 Eng 59 Geol 51 Geol 51 Phys 57 H Ec 58 1st term H Ec 58 2nd term Math 56 Phys 53	Lat A (C) *Fr 44 Germ 1—3 (B) *Germ 44 Lat 1—3 (B) Hist 3 Math 7 Phys 12 Zool 1 Biochem 61 Fr 52 Geol 51 H Ec 57 Phys 57 H Ec 58 1st term H Ec 58 2nd term Math 56 Phys 53	Eng 1 (C) Lat 1—3 (B) Lat 1—3 (A) Math 1 (B) Math 1 (C) Hist 2 Math 22 Acc'y 55 2nd term Cl in Eng 51 Eng 59 Geol 51 H Ec 57 Phys 57 H Ec 58 1st term H Ec 58 2nd term Math 56 Phys 53	Lat A (C) *Fr 44 Germ 1—3 (B) *Germ 44 Lat 1—3 (B) Hist 3 Math 7 Phys 12 Zool 1 Biochem 61 Fr 52 Geol 51 H Ec 57 Phys 57 H Ec 58 1st term H Ec 58 2nd term Math 56 Toxicol 61 2nd term
1.30	Grk 1 Hist 1 (A) Fr 5—4 (C) Math 22 (A) lab Phys 6 lab Zool 1 lab Biochem 61 lab Chem 59 lab Geol 58 lab H Ec 51 lab Pharm 54 lab	Hist 1 (C) Phys 1 (A) lab Phys 8 lab Math 22 (B) lab 2nd term Bact 61 lab 1st term Bot 52 lab Chem 54 lab Geol 54 lab Geol 53 lab H Ec 59 lab 1st term Math 56 (A) lab 1st term Pharm 64 lab Physiol 62 lab	Grk 1 Chem 1 (A) lab Fr 5—4 (C) Bot 54 lab Chem 51 lab Chem 59 lab Ent 61 (A) lab Geol 55 lab H Ec 55 lab Physiol 62 term Math 56 (A) lab 1st term Psych 51	Hist 1 (C) Phys 1 (B) lab Bot 1 lab Chem 1 (B) lab Phys 12 lab Chem 52 lab Geol 51 lab H Ec 58 lab 2nd term Math 56 (B) lab 1st term Pharm 55 lab	Grk 1 Hist 1 (A) Phys 3 lab Fr 5—4 (C) Bot 54 lab Chem 58 lab Ent 61 (B) lab Geol 52 lab H Ec 52 lab Physiol 61 lab Phys 53 lab	Grk 1 Hist 1 (A) Phys 3 lab Fr 5—4 (C) Bot 54 lab Chem 58 lab Ent 61 (B) lab Geol 52 lab H Ec 52 lab Physiol 61 lab Phys 53 lab
2.30	Hist 1 (B) Lat 1—3 (C) Math 22 (A) lab 2nd term Phys 6 lab Zool 1 lab Biochem 61 lab Chem 59 lab Eng 53 lab Geol 58 lab Grk 59 H Ec 51 lab Pharm 54 lab Pol Ec 65	Hist 1 (D) Phys 1 (A) lab Phys 8 lab Math 22 (B) lab 2nd term Bact 61 lab 1st term Bot 52 lab Chem 54 lab Geol 54 lab Geol 53 lab H Ec 59 lab 1st term Math 56 (A) lab 1st term Pharm 64 lab Physiol 62 lab	Hist 1 (B) Lat 1—3 (C) Chem 1 (A) lab Bot 54 lab Chem 51 lab Chem 59 lab Eng 53 Ent 61 (A) lab Geol 55 lab H Ec 55 lab H Ec 55 lab Pol Ec 65	Hist 1 (D) Phys 1 (B) lab Bot 1 lab Chem 1 (B) lab Phys 12 lab Chem 52 lab Geol 51 lab H Ec 58 lab 2nd term Math 56 (B) lab 1st term Pharm 55 lab	Lat 1—3 (C) Phys 3 (lab) Bot 54 lab Chem 58 lab Ent 61 (B) lab Geol 52 lab H Ec 52 lab Physiol 61 lab Phys 53 lab	Lat 1—3 (C) Phys 3 (lab) Bot 54 lab Chem 58 lab Ent 61 (B) lab Geol 52 lab H Ec 52 lab Physiol 61 lab Phys 53 lab
3.30	Fr 1—3 (D) Hist 1 (E) Zool 1 lab Biochem 61 lab Chem 59 lab Geol 58 lab H Ec 51 lab Lat 55 Pharm 54 lab	Hist 1 (F) Bact 61 lab 1st term Bot 52 lab Chem 54 lab Geol 54 lab Geol 53 lab H Ec 59 lab 1st term term Pharm 54 lab Physiol 62 lab	Fr 1—3 (D) Hist 1 (E) Chem 1 (A) lab Bot 54 lab Chem 51 lab Chem 59 lab Ent 61 (A) lab Geol 55 lab H Ec 55 lab H Ec 55 lab Lat 65	Hist 1 (F) Bot 1 lab Chem 1 (B) lab Chem 52 lab Geol 51 lab H Ec 59 lab 2nd term Pharm 55 lab	Fr 1—3 (D) Bot 54 lab Chem 58 lab Ent 61 (B) lab H Ec 52 lab Lat 55 Physiol 61 lab Phys 53 lab	Fr 1—3 (D) Bot 54 lab Chem 58 lab Ent 61 (B) lab H Ec 52 lab Lat 55 Physiol 61 lab Phys 53 lab
4.30		C O T C	C O T C	C O T C		
5.00	Arch 62 Educ 55 Old and New Test. Lit. 51	Psych 55	Arch 62 Educ 55 Old and New Test. Lit. 51	Psych 55	Arch 62 Old and New Test. Lit. 51	

*Engineering students only.

†See under Department of Modern Languages.

N.B.—1. Physical Education 1 and 2 at 4:30; days to be arranged.
2. Honours Courses: Physics 51; Ent 62 and 63; Germ 55 and 57; days to be arranged.

Academic Calendar

1927

July

- 1—Students admitted to the University Hospital for Diploma Course.
- 4—Summer Session opens.

August

- 13—Last day for receiving applications for examinations on behalf of affiliated professional societies.
- 13—Summer Session closes.
- 15—Applications due for September Matriculation at the office of the Chairman of the High School and University Matriculation Examinations Board, Parliament Buildings, Edmonton.
- 23—Last day for receiving applications for supplemental examinations.
- 29—Autumn Matriculation Examinations begin.

September

- 14—Examinations of affiliated professional societies begin.
- 15—Last day for receiving applications for Diploma Course in Nursing.
- 23—Supplemental examinations begin.
- 26,27—Registration of Freshmen and new students.
- 27, 28—Registration of all other students.
- 28—Lectures in first year courses begin.
- 29—Lectures in other courses begin.

October

- 1—Students admitted to University Hospital for preliminary term.
- 6—University Field Day.
- 20—First meeting, Students' Union (11:30 a.m.).
- 31—Last day for graduate and B.D. students to adjust courses or submit subjects of investigation.

UNIVERSITY OF ALBERTA

November

- 7—Thanksgiving Day.
- 14—First Junior tests begin.

December

- 15—First Senior tests begin.
- 22—Christmas vacation begins.

1928

January

- 4—Lectures begin.
- 23—Examinations of the Alberta Land Surveyors' Association.
- 30—Second Junior tests begin.

February

- 13—Second Senior tests begin.
- 22—Ash Wednesday.

March

- 24—Lectures close in second and third years of Applied Science.
- 28—Examinations begin in second and third years of Applied Science.

April

- 3—Final meeting, Students' Union (11:30 a.m.).
- 6—Good Friday.
- 9—Survey School begins.
- 14—Lectures close in Arts, Law, Medicine, Pharmacy, Agriculture and first, fourth and fifth years in Applied Science.
- 14—Last day for submission of theses in competition for special prizes.
- 14—Last day for submission by graduate students of theses or reports of results of investigation.

ACADEMIC CALENDAR

- 15—Applications due for June Matriculation Examinations at the Office of the Chairman, High School and University Matriculation Examinations Board, Parliament Buildings, Edmonton.
- 16—Final Examinations begin in all faculties.
- 17—Examinations of the following affiliated professional societies begin: The College of Physicians and Surgeons of Alberta, the Law Society of Alberta, the Alberta Dental Association, the Alberta Land Surveyors' Association, The Alberta Architects' Association, the Alberta Association of Registered Nurses, the Veterinary Association of Alberta, the Alberta Optometric Association, the Alberta Pharmaceutical Association, and the Institute of Chartered Accountants of Alberta.

May

- 9—Charter Day.
- 14—Meeting of the University Senate.
- 15—Convocation for the conferring of degrees and awarding of prizes.

Governing Body of the University of Alberta

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THE HONOURABLE WILLIAM EGBERT, M.B., M.D., C.M., LL.D., Lieutenant-Governor of Alberta.

CHANCELLOR

THE HONOURABLE ALEXANDER CAMERON RUTHERFORD, B.A., B.C.L., LL.D.

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MRS. VIOLET McCULLY BARSS.

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ALLAN COATS RANKIN, C.M.G., M.D., C.M., D.P.H., L.R.C.P., M.R.C.S., Dean of the Faculty of Medicine.

ROBERT WILLIAM BOYLE, M.Sc., M.A., Ph.D., F.R.S.C., Dean of the Faculty of Applied Science.

JOHN ALEXANDER WEIR, B.A., LL.B., Dean of the Faculty of Law.

JOHN MALCOLM MacEACHRAN, M.A., Ph.D., Provost of the University.

JOHN THOMAS ROSS, B.A., Deputy Minister of Education.

THE REVEREND AUBREY STEPHEN TUTTLE, M.A., D.D., and

THE REVEREND JOHN McLEOD MILLAR, M.A., B.D., D.D., Principals of St. Stephen's College.

THE RIGHT REVEREND HENRY ALLEN GRAY, M.A., D.D., LL.D., Warden of St. Aidan's College.

THE REVEREND BROTHER ROGATIAN, F.S.C., Rector of St. Joseph's College.

ERNEST WILLIAM COFFIN, B.A., Ph.D., Senior Principal of the Provincial Normal Schools.

WILLIAM GRANT CARPENTER, B.A., LL.D., Principal, Provincial Institute of Technology and Art.

UNIVERSITY OF ALBERTA

HORACE ALDRIDGE CRAIG, B.S.A., Deputy Minister of Agriculture.
MALCOLM ROSS BOW, B.A., M.D., C.M., D.P.H., Deputy Minister of Public Health.
ALBERT EDWARD OTTEWELL, M.A., Director, Department of Extension.
ERNEST WILSON SHELDON, M.A., Ph.D., Chairman, Freshman Committee.

Elected Members to Retire May 20th, 1929.

WILLIAM DIXON CRAIG, B.A., LL.B.
JAMES McLAREN NICOLL, B.A., B.Sc.
ROBERT BRUCE WELLS, M.B.
JOSEPH DOLSON OLIVER MOTHERSILL, B.A.
OLIVER BOYD, M.D., C.M.

Elected Members to Retire May 21st, 1931.

THE REVEREND DAVID GEORGE McQUEEN, B.A., D.D., LL.D.
HARRY GRATTAN NOLAN, B.A.
WILLIAM FULTON GILLESPIE, M.A., M.B.
THE REVEREND SIDNEY BAINBRIDGE, B.A., B.D.
ERNEST LEROY CHURCHILL, M.A.

JOHN FIRMAN COAR, M.A., Ph.D., and
ALFRED LEROY BURT, B.A., M.A., and
GENEVA MISENER, M.A., Ph.D., Representatives of the Faculty of Arts and Sciences to retire March 8th, 1928, and
FRANK AMBROSE STEWART DUNN, Ph.C., M.P.S., to retire March 8th, 1929.

JOHN PERCY SACKVILLE, B.S.A., M.A., and
CHRISTIAN PETER MARKER, LL.D., Representatives of the Faculty of Agriculture to retire March 8th, 1928.

FRANK HAMILTON MEWBURN, M.D., C.M., LL.D., and
HARRY ERNEST BULYEA, D.M.D., Representatives of the Faculty of Medicine to retire March 8th, 1928.

ALAN EMERSON CAMERON, M.Sc., D.Sc., and
OSMAN JAMES WALKER, B.A., M.A., Ph.D., Representatives of the Faculty of Applied Science to retire March 8th, 1929.

GEORGE HOBSON STEER, M.A., Representative of the Faculty of Law to retire March 8th, 1929.

WILFRED ALFRED WILSON, M.D., L.R.C.P. & S., F.A.C.S., Representative of the College of Physicians and Surgeons of Alberta.
ALBERT PALMER CROEY BELYEA, Director of Surveys for Alberta, Representative of the Alberta Land Surveyors' Association.
ARTHUR BENJAMIN MASON, D.D.S., Representative of the Alberta Dental Association.
WILLIAM GEORGE BLAKEY, Representative of the Alberta Architects' Association.
HAROLD HAYWARD PARLEE, B.A., B.C.L., Representative of the Law Society of Alberta.
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HENRY MARSHALL TORY, President of the University.

JOHN THOMAS STERLING, Chief Inspector of Mines.

JOHN ANDREW ALLAN, Geologist.

NORMAN CHARLES PITCHER, Mining Engineering.

ROBERT WILLIAM BOYLE, Dean, Faculty of Applied Science of the University.

ROBERT M. YOUNG, Canmore, Alberta.

EDGAR STANSFIELD, Honourary Secretary.

Research Professors

EDGAR STANSFIELD, M.Sc. (Manchester), Fuels.

KARL ADOLPH CLARK, M.A. (McMaster), Ph.D. (Illinois), Road Materials.

INDUSTRIAL LABORATORIES

JAMES ALEXANDER KELSO, M.Sc. (Queen's), Director and Provincial Analyst.

HORACE OTTO TOMLINSON, B.Sc. (Alberta), Assistant.

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The Chairman of the Board, the HONOURABLE HORACE HARVEY.

The Provost, Professor MacEACHRAN.

The Adviser to Women Students, MISS DODD.

*Rhodes Scholar.

UNIVERSITY OF ALBERTA

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JOSEPH DOLSON OLIVER MOTHERSILL, B.A.

Representatives of the Faculties

Dean KERR.

Dean HOWES.

Dean RANKIN.

Dean BOYLE.

Dean WEIR.

Professor SHELDON.

Representatives of the Students' Union

The President of the Students' Union; the President of the Literary Department of the Students' Union; the President of the Athletic Association; the President of the House Committee; the Editor-in-Chief of "The Gateway"; the President of the Wauneita Society; three members to be selected by the Students' Council.

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The Adviser to Women Students, the President of the Students' Union, ex-officio, and two resident students from each of the University Halls.

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Associate Professor LONG, Secretary.

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The Assistant Director of Physical Education.

The Director of Physical Education, Secretary.

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Miss PATRICK.

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The Committee on Physical Education, together with the President of the Students' Athletic Association, and the Presidents of the Major Athletic Clubs.

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Professor CAMPBELL.	Professor OWER.
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Miss McINTYRE.	Assistant Professor SINCLAIR.
The FRESHMAN COMMITTEE.	The REGISTRAR.

Organization of the University

HISTORY AND GOVERNMENT

The University of Alberta was created by an act of the Legislature of the Province passed at the first session after provincial autonomy had been granted (1906); that is, the act created the machinery by which the University could be brought into existence. By this act the University, which then consisted of the Chancellor, the Vice-Chancellor, the Senate, and the Convocation, was empowered to undertake the organization and development of the teaching faculties, to affiliate colleges, and generally, to undertake all work relating to an institution of higher learning. An amendment to the act, passed during the session of the Legislature in 1907, authorized the Lieutenant-Governor-in-Council as a preliminary step to the organization of the University, to appoint the first President, to whom was to be given the responsibility, in conjunction with the Senate, of organizing and developing the university scheme. Acting upon this authority the Government selected the first President, Henry Marshall Tory, who entered upon his duties on January 1st, 1908.

Under the act, all resident graduates of British and Canadian universities were entitled to become members of the convocation of the University of Alberta, by registering before a fixed date. Three hundred and sixty-four graduates, representing all the Canadian and many of the British universities, registered, so that a large and representative body constituted the first Convocation.

The act also provided that the Senate should consist of fifteen members, ten to be appointed by the Government, five to be selected by the members of Convocation from among themselves. The Chancellor likewise was to be chosen by a ballot of Convocation. The voting for the first Senate election closed on March 18, 1908, and immediately thereafter the Government nominated its ten representatives. The late Mr. Justice Stuart of Calgary was chosen as first Chancellor.

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As the Act made the Senate the governing body of the University, both in relation to education and business management, at the first meeting of that body, on March 30th, 1908, it took all the necessary steps to organize the first faculty, to be known as the Faculty of Arts and Sciences, and to open the University of Alberta for classes in this Faculty in September, 1908.

At the second meeting of the Senate, held in Calgary, July 6th, 1908, the first faculty appointments were made, four professors being named to co-operate with the President in the work of commencing instruction.

The first session of the University opened on September 23rd, 1908. The total registration for the session was forty-five, four of whom were students taking graduate courses in the Department of Physics.

At the second session of the Second Legislature, November, 1910, a comprehensive measure reorganizing in large part the government of the University was introduced and passed into law. By the new act a Board of Governors was constituted, to consist of the Chancellor and the President of the University, ex-officio, together with nine members to be appointed by the Lieutenant-Governor-in-Council; the functions of this Board may be defined generally as those of business management and administration, including the making of appointments to the teaching and office staff of the University, the handling of all University moneys and investments, and the supervision of buildings and grounds. The Senate, by this same act, was continued as a body entrusted with the general supervision of the University's educational work. It is defined by the statute to consist of the Chairman of the Board of Governors, the President, the heads of affiliated Colleges, the Deans of the University Faculties, all ex-Chancellors or ex-Vice-Chancellors of the University, the Senior Principal of the Provincial Normal Schools, and the Deputy-Minister of Education for the Province ex-officio; of faculty representatives; of representatives of all societies whose examination for status are conducted by the University; and of ten members elected by Convocation. The prerogatives of the Senate include the field of student regulation and discipline, the approval of all educational schedules or programmes, and the establishing and conferring of degrees. The Convocation, under this act, is composed of all graduates of the University and of all the resident graduates of British

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and Canadian universities who registered under the University Act of 1906. Convocation is empowered to consider all questions affecting the well-being of the University and to make representation thereupon, to the Board and to the Senate.

Conformably with the provisions of this act, late in December, 1910, the Lieutenant-Governor-in-Council appointed nine members of the Board of Governors, who met and organized early in January, 1911. An election for members of the Senate, in accordance with the terms of the act, was ordered. By March 8th the elective members of the Senate had been chosen, and the new Senate held its first meeting for the transaction of business on March 31st, 1911, completing, among other items, arrangements for the first graduation exercises of the University. These took place on May 16th, 1911.

During the summer of 1911, Athabaska Hall, the first building of the University scheme to be completed, was made ready for occupation, and lectures were given for the first time on the University Grounds in September of that year. At the same time excavations were begun for a second hall of a similar nature. This became available for partial occupation in October, 1912, and in its entirety by the beginning of 1913, under the name of Assiniboia Hall. In the autumn of 1913 the foundations of the third building, Pembina Hall, were laid, and in October, 1914, a considerable part of it was ready for use as class-rooms. It is now used for residential purposes only.

From its very beginning the University of Alberta has undertaken extension work in the form of lectures by members of its staff in a number of important provincial centres, but special emphasis was laid upon this side of the University's activities by the appointment in May, 1912, of a special Secretary of the Department of Extension. This officer undertook the task of systematizing the extension work in such a way as to enable the University to achieve more fully the important function of reaching in its educational work the people of the province at large.

The Department of Extension also inaugurated in 1913 a press bulletin, a system of travelling libraries, and a bureau of information from which literary clubs and debating societies can obtain briefs on issues of all sorts. It organized in the same year a high school debating league which has stimulated

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very remarkably the interests of the secondary schools of the Province in argumentation and public speaking. A new departure in 1915 was the presentation to Edmonton and Calgary audiences of a series of discussions on the social problems of western Canadian life. Its department of visual instruction has also of late years become one of the most important branches of its work; through it are supplied lectures of an educational character, accompanied by slides or cinema films.

The year 1912 saw another development of the University's activity in the creation of a Faculty of Law; this was effected by a resolution of the Senate under date of October 3rd, upon which the Board of Governors took favourable action shortly afterwards. A three-year course leading to the degree of LL.B. was established, and thirty-five students were enrolled for the first session of the new faculty. In 1914 this course, portions of which coincide with the requirements of the Alberta Law Society, was extended to cover four years.

In the autumn of 1913 the Department of Civil Engineering and its allied subjects ceased to form a portion of the original Faculty of Arts and Sciences, and were constituted a new faculty under the name of the Faculty of Applied Science. At the same time the fourth University faculty came into existence, and instruction began in the Faculty of Medicine. Twenty-six students constituted the first class in this faculty, and arrangements were perfected to carry them through at least three years of a five-year course, with the privilege of being then transferred, if necessary, with full standing to certain Eastern universities. Under the Faculty of Medicine a Department of Pharmacy has been organized; instruction in this Department began in October, 1914, designed to prepare students to satisfy the requirements of the Pharmaceutical Association of Alberta. A feature of interest in connection with the Faculty of Medicine is the University Medical Service whereby the health of all students is supervised in a very direct manner. A small hospital is maintained for the benefit of student patients on the lower floor of the south wing of Athabaska Hall.

In December, 1913, the contracts were let for the construction of what is known as the main teaching building of the University. This fine structure in the neo-classic style ranks high among the university buildings of Canada for the combination it presents of utility and beauty. It was occupied in October, 1915, being opened with comparatively simple

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ceremonies because of the shadow of war which then lay so heavily upon the country.

As for the work of the University in the war, it is fitting to note here that the University of Alberta sent into various branches of His Majesty's service in all parts of the world 438 undergraduates, alumni and staff-members. Of these a large number received special military decorations from the British Empire and several also from the French Republic and other Allied Governments, while to some eighty-two it was given to offer for their country the last measure of sacrifice.

During the long period of the war (1914-1918), all building activities were suspended, but in May, 1919, arrangements were made to proceed with an extension of the then existing civil engineering unit and to duplicate this building by a similar structure at the north end of the main teaching building.

In September, 1915, the fifth University faculty came into existence when the Faculty of Agriculture was created. The southern end of the University property is largely devoted to the farm buildings and experimental plots of this College, and it became necessary in the spring of 1919 to acquire still more land a short distance south of the university site proper in order to provide further facilities for the study of animal husbandry.

Pharmacy, which as above noted, began its work as a Department of the Faculty of Medicine in October, 1914, was in the spring of 1917 erected into a School of Pharmacy, designed not only to give instruction in such work as is required by the Pharmaceutical Association of Alberta, but also to carry forward to a degree such students as may decide to devote four years of study to the work. In this manner the whole standard of Pharmacy in the Province of Alberta was distinctly elevated.

Dentistry was authorized as a sub-faculty under the Faculty of Medicine in 1917, and the first students under this arrangement offered themselves in the session of 1918-19. While for a time the final years were taken in Eastern institutions, during the summer of 1924 provision was made for such equipment and instruction as would make possible the offering of the fourth and fifth years in Dentistry, and with the fall of 1925 a fourth year class was for the first time enrolled, to complete its course in the spring of 1927. A well-equipped laboratory in prosthetic dentistry was made available for

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this class, while the opening of a clinic in the Medical Building gave the necessary facilities for the teaching of operative dentistry. In this manner another division of University instruction was rounded out to completion.

In 1918 the Department of Household Economics was organized under the Faculty of Arts and Sciences, the need having already been made clear by a demand for this work the previous session. In the fall of 1918 also special recognition was accorded the physical needs of the rapidly growing body of women students by the appointment of a Directress of Physical Education for Women.

In the fall of 1918 the College of Agriculture lent itself most heartily to the pressing demands of reconstructional education by offering courses of a special nature in various agricultural lines and also in carpentering and blacksmithing. A large number of returned soldiers were in this way most satisfactorily accommodated, and assisted to adapt themselves for the tasks of civil life.

The insistent demands of the economic and social problems of the province were recognized by the creation in the spring of 1919 of chairs of Soils, Mining Engineering and Economics, in all of which a full measure of work was offered in the fall of 1919. All of these subjects had previously been handled as branches of already existing departments but with the recognition of their growing importance came the decision to treat them as independent units of the educational scheme.

The extraordinary increase in the number of students in the Faculty of Medicine, made it absolutely imperative in the fall of 1919 to consider the question of the future housing of that Faculty, and the Board of Governors authorized early in 1920 the construction of a Medical Building, work on which began in April of that year. The new edifice faces south on the quadrangle of University buildings, and is in architectural harmony with the general neo-classic style adopted some years previously for the whole University scheme. In addition to accommodating the Department of Chemistry, it contains laboratories for the Departments of Anatomy, Physiology, Biology, Pathology and Public Health, and also two lecture halls in theatre form with a capacity of two hundred students each. Full advantage has been taken in the erection of this building of the wide experience afforded by the last twenty years in such matters.

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The status of the School of Pharmacy was augmented during the academic year 1919-20 by the creation of the office of Director of the School; this step completed the evolution of the School from a Department under the Faculty of Medicine to an independent unit in the University plan.

During the session 1919-20, the entire University curriculum in all faculties was subjected to careful scrutiny and revision in the light of the most recent developments in the theory of university education and of the growth of the demand in the province for university training, and the results of this investigation, constituting the most important advance in the scholastic history of the institution, became available by authorization of the Senate for the academic year beginning in September, 1920. The general aim of the revision was to secure greater freedom in the election of courses without abandoning in any sense the basic features of a sound education as dictated by long experience.

A notable feature of the University life during the winter of 1919-20 was the formation of the Scientific Association of the University of Alberta, comprising all the members of the staff engaged in teaching and research work in the pure and applied sciences. The meetings of this society revealed in a convincing way the present lack of existing knowledge in regard to the facts upon which the economic life of the Province of Alberta must ultimately depend, and at least forty problems of pressing importance were definitely formulated and submitted to the government of the province for consideration. With the entire concurrence of the latter the University assumed through its various departments the important duty of economic research into the resources of the province under the general chairmanship of the Honourable J. L. Coté, Provincial Secretary, and during the field season of 1920 operations began on a definite and considered basis. In this connection the University farm, primarily equipped for the purposes of the Department of Agriculture, was authorized by the Board of Governors to conduct an experimental station for agricultural research.

The deanships of the University, first instituted in May, 1914, by the appointment of Professor W. A. R. Kerr as Dean of the Faculty of Arts, and added to by the appointment of Dean E. A. Howes in the Faculty of Agriculture in 1915, were further increased in the spring of 1920 by the nomination of Dr. A. C. Rankin to the deanship of the Faculty of Medi-

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cine, in the autumn of 1921 by the selection of Professor R. W. Boyle as Dean of the Faculty of Applied Science, and in the spring of 1926 by the choice of Professor J. A. Weir as Dean of the Faculty of Law.

As an outcome of a successful series of monthly extension lectures in the history of economic thought given at the Calgary Labor Temple, in the winter of 1920-21, an Extension Lecturer in Economics was added to the staff; and the following winter, in cooperation with the Provincial Department of Labor, weekly tutorial classes in Economic Principles and Institutions were conducted for twenty-five weeks with the Calgary and Edmonton Trades and Labor Councils respectively. During the 1922-23 session, weekly lectures in the Government of Modern Democracies (fall term) were continued under the auspices of the Educational Committee of the Edmonton Trades and Labor Council. (A weekly lecture course in History and Economics was conducted contemporaneously by the Department of Extension for women workers at the Edmonton Y.W.C.A.)

During the same season over 120 registrations were received from farmers, coal miners, teachers and others throughout the Province, in the correspondence course in Principles of Political Economy (20 studies).

The Medical Building, begun in the spring of 1920, was brought to completion in the summer of 1921, thus becoming available for teaching purposes in September. The equipment of this building in all departments is particularly adequate for scientific instruction in Medicine and for the needs of medical research, and during the year 1920-21 the Departments of Physics and Chemistry, the work of which bears an important relation to that in the Faculty of Medicine, received also generous additions to their material resources.

Negotiations of vital interest to the future of medical teaching in the University were begun during the summer of 1920 with the Rockefeller Foundation, instituted by John D. Rockefeller, for the promotion of better medical training in the United States and Canada; the sum of one hundred millions of dollars has been placed under the administration of this Foundation, of which five millions is for use in the Dominion of Canada. During the period when the negotiations were still incomplete the sum of twenty-five thousand dollars annually, representing the interest on half a million,

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was made available for the use of the Medical Faculty in the University of Alberta, and in the fall of 1923 the principal amount was paid over to the University in full, constituting the first great endowment received by the University of the Province from private sources.

In the Faculty of Agriculture during the year 1920-21, a new department of Agricultural Engineering was added. In this department, as in all the other departments of the Faculty of Agriculture, much progress was made in providing the equipment required for practical instruction in agricultural subjects and for the furtherance of scientific investigation in agriculture generally.

The relation of the University to public service was further emphasized during 1920-21 by the inclusion in the University's lecture and examination programme of the courses relating to the training of nurses for the Public Health service of the Province. Legislative enactment also placed optometry and veterinary science under the control of the University Senate for purposes of examination for license to practise within the Province.

The Provincial Legislature at its 1921 session passed an amendment to the Legal Profession Act whereby the establishment of a School of Law in connection with the University was made possible. In accordance with this provision the School was instituted forthwith and first year courses in Law offered in September of the same year. The first class to receive degrees from the School graduated in May, 1924.

In 1922 negotiations were entered into between the University of Alberta and the City of Edmonton for the transfer to the University of the hospital erected in 1913 on a site provided by the University, and, as a result of the successful completion of these discussions, the University secured possession of the University Hospital, which thus became directly available for clinical instruction in medicine. In connection with the University Hospital there was also established an outdoor clinic, and the University of Alberta was thus enabled to offer a complete course in Medicine. The first class to graduate under this scheme received their degrees in May, 1925.

During the fall of 1924 and the spring of 1925 a vigorous campaign was successfully conducted by the Alumni Association of the University to raise the necessary funds to erect in

LIBRARY

Convocation Hall a Memorial Organ in remembrance of the part played by the institution in the struggle of 1914-1918, and in the early autumn of 1925 the organ was installed by the representatives of its builders, the Casavant Frères of Ste. Hyacinthe. It was formally dedicated on the morning of Armistice Day, November 11, 1925, and was at once recognized as an invaluable addition to the cultural life of the University.

Simultaneously with the Memorial Organ there was dedicated a bronze memorial tablet, set up in the entrance to Convocation Hall; it bears the names of the eighty-two members of the University who died in the war.

On March 5, 1926, the University suffered an incalculable loss in the death of its first Chancellor, Mr. Justice Stuart, who had served in that post ever since the foundation of the institution, with great benefit to the University and distinction to himself. Mr. Justice Beck, vice-chancellor of the University, succeeded to the position of Chancellor under the terms of the University Act.

On January 11, 1927, death once again intervened to deprive the University of the services of another loyal friend, Cecil E. Race, first registrar of the institution, who for seventeen years had been responsible for the development of the University's system of examinations and records.

In the early days of 1927 a memorial tablet was placed in the entrance to Convocation Hall in honour of Professor William Muir Edwards, who gave up his life in the service of the sick during the great influenza epidemic of 1918.

UNIVERSITY LIBRARY

The Library of the University contains about 30,000 volumes, and is being added to as circumstances permit.

The main Reading Room is in the Arts Building; during the session about 1,200 of the books required in connection with the various classes are kept on open shelves in this room for the convenience of students. The Stack Room is below the Reading Room, and all students may borrow books from it, but only senior students are allowed to study in the Stack Room.

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The Medical Building has its own Reading Room, in which the medical section of the Library is housed, and the Agricultural Building has a similar separate Reading Room.

The Law Library occupies a separate room in the Arts Building, and a Reading Room for Research workers has been established.

The Library subscribes to a large number of the most important periodicals, which are available for consultation.

Matriculation

CLASSIFICATION OF STUDENTS

The courses of study in the University are open to men and women on equal footing.

Except under special circumstances no student under sixteen years of age will be admitted to the first year, or under seventeen to the second year.

No one will be registered as a student for a full undergraduate course who has failed in more than two of the courses enumerated in the matriculation examination requirements for the various faculties.

Students are classified as Graduate, Undergraduate, Conditioned, Partial, Special and Auditors.

Graduate students are those who hold the Bachelor's degree (B.A., B.Sc. or B.Com.), and are either pursuing special studies in advanced courses, or have been formally admitted upon the recommendation of the Committee on Graduate Studies, to candidacy for the Master's degree, or for the degree of B.Educ.

Undergraduates are matriculated students who are taking a full undergraduate course leading to a degree. In order to become undergraduates, candidates must have passed the full matriculation examination of the University or some other equivalent examination.

Conditioned students are those who, having failed in not more than two subjects of their matriculation examination, are actually taking a full undergraduate course leading to a degree, and are entitled to obtain undergraduate standing on completing their matriculation.

Partial Students. Students who are proceeding to a degree, but who are not registered for a full undergraduate course, or who during the session drop two courses, are partial students.

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Special Students are those who, not belonging to one of the above classes of students, are pursuing the study of particular subjects. Such students may, subject to the approval of the Committee on Admissions, attend classes without previous examination, but any classes so taken cannot be credited towards a degree.

Auditors. In special circumstances, certain persons may attend occasional lectures in a course, and be registered as auditors, provided the consent of the instructor in the course is obtained.

"A" LANGUAGE COURSES

For the convenience of students who have not had the opportunity of studying languages, the University at present offers instruction to beginners in French, German, Greek and Latin (i.e., French A, German A, Greek I, Latin A). This additional work constitutes a serious handicap, and no student who has the opportunity of preparing the languages at high school should postpone them until he reaches university. The pass mark in the A language courses is 65% and a special fee is charged for them.

MATRICULATION EXAMINATIONS

Examinations for entrance to the University are conducted twice each year, in June and September, under the control of the High School and University Examinations Board. The subjects of examination follow. Applications for these examinations should be made about two months before the date of examination to the Chairman of the High School and University Matriculation Examinations Board, Department of Education, Government Buildings, Edmonton.

MATRICULATION REQUIREMENTS

The various lists of Matriculation subjects are as follows:

(a) **For the Degrees of B.A., B.Sc. in Arts, B.Sc. in Household Economics, and B.Com.** (Faculty of Arts and Sciences), twenty-one courses as offered in three years of High School work, or the equivalent. The decision as to what shall be accepted as equivalent rests with the Committee on Admissions of the University. The twenty-one courses are as follows:

MATRICULATION REQUIREMENTS

1. English Composition 1, 2 and 3; English Literature 1, 2 and 3.
2. History 1, 2 and 3.
3. Algebra 1 and 2.
4. Geometry 1 and 2.
5. General Science 1.
6. Arithmetic 1.
7. Latin 1 and 2; or Greek 1 and 2; or French 1 and 2; or German 1 and 2.
8. Four courses from: Physics 1, Chemistry 1, Agriculture 1, Agriculture 2, Languages.

While it is possible to select from 8. Physics 1, Chemistry 1, Agriculture 1, and only the first unit of a second language, it is unwise to do so, for the second unit of the second language is required in order that the student may proceed with first year University work in that language. (See p. 76 for first year University curriculum.) Students presenting Physics 2 are required to select in the second year a course in either Chemistry or Physics; or else to take the laboratory of Physics 1 in the Summer Session.

Students having the above and the following courses of fourth year High School are admitted to the second year: English Composition 4, English Literature 4, History 4, Algebra 3, Geometry 3, Trigonometry 1, Physics 2, the third course of each of two languages.

Attention is called to the following rules of the Faculty of Arts and Sciences:

(1) Students entering the Faculty of Arts and Sciences with Grade XII credits, but with no languages, are required to spend four years in order to obtain a degree, that is, the first two years are spent on first and second year work only.

(2) Students entering the Faculty of Arts and Sciences with Grade XII credits, but deficient in one language, are not allowed to enter the third year until they have credit in the A language.

(3) In the Faculty of Arts and Sciences students entering the first year with conditions or deficiencies must clear these before registering for the second year.

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(b) **For B.Sc. in Pharmacy** (Faculty of Arts and Sciences):

1. English Composition 1, 2 and 3; English Literature 1, 2 and 3.
2. History 1, 2 and 3.
3. Algebra 1 and 2.
4. Geometry 1 and 2.
5. General Science 1.
6. Arithmetic 1.
7. Latin 1 and 2.
8. Chemistry 1.
9. Physics 1.
10. French 1 and 2 or German 1 and 2.

Students having the above subjects and the following subjects of fourth year High School are admitted to the second year: English Composition 4, English Literature 4, History 4, Algebra 3, Geometry 3, Trigonometry 1, Physics 2, Latin 3, and French 3 or German 3.

Attention is called to the rules of the Faculty of Arts and Sciences cited under (a).

(c) **For the Licentiate Course in Pharmacy** (School of Pharmacy).

1. English Composition 1, 2 and 3; English Literature 1, 2 and 3.
2. History 1, 2 and 3.
3. Algebra 1 and 2.
4. Geometry 1 and 2.
5. General Science 1.
6. Arithmetic 1.
7. Latin 1 and 2.
8. Four courses from: Physics 1, Chemistry 1, Agriculture 1, Agriculture 2, Geography 1, Languages.

(d) **For LL.B.** (Faculty of Law).

1. English Composition 1, 2 and 3; English Literature 1, 2 and 3.
2. History 1, 2 and 3.
3. Algebra 1 and 2.
4. Geometry 1 and 2.

MATRICULATION REQUIREMENTS

5. General Science 1.
6. Arithmetic 1.
7. Latin 1 and 2.
8. Four courses from: Physics 1, Chemistry 1, Agriculture 1, Agriculture 2, French 1 and 2, German 1 and 2; and
9. Two years in Arts.

Students entering Law, who plan to take Grade XII, should note under (a) the required subjects in fourth year High School.

(e) **For B.Sc. in Engineering** (Faculty of Applied Science):

1. English Composition 1, 2 and 3; English Literature 1, 2 and 3.
2. History 1, 2 and 3.
3. Algebra 1 and 2.
4. Geometry 1 and 2.
5. General Science 1.
6. Arithmetic 1.
7. Latin 1 and 2, or Greek 1 and 2, or French 1 and 2, or German 1 and 2.
8. One course from Physics 1, Chemistry 1, Agriculture 1, Geography 1.
9. Three courses from: Sciences, Languages, Shop Work, Manual Training.

Students may be admitted to the second year upon the completion of first year Arts, or upon the completion of the following subjects of Grade XII: English Composition 4, English Literature 4, History 4, Algebra 3, Geometry 3, Trigonometry 1, Physics 2, the third course in a language.

Attention is called to the following rules of the Faculty of Applied Science:

(1) In the Faculty of Applied Science students will not be admitted to the second year conditioned in two sequent courses of the same subject, e.g., French A and French 44.

(2) In the Faculty of Applied Science students entering the first year with conditions or deficiencies must clear these before registering for the second year.

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(f) **For D.D.S.** (Faculty of Medicine). As in (b) above. The entrance requirements for the Dentistry course are now under consideration. In the future preference will be given to students presenting First Year Arts or Grade XII.

(g) **For M.D.** (Faculty of Medicine), as in (b) above; and the subjects of First Year Arts or Grade XII.

Attention is called to the following rule of the Faculty of Medicine:

In the courses leading to the degrees of M.D. and D.D.S. a student is not permitted to enter the second year until all the matriculation subjects (including languages) and all the subjects of the first year have been passed.

(h) **For the Diploma Course in Nursing** (School of Nursing, Faculty of Medicine). Grade XI or its equivalent.

For B.Sc. in Nursing (School of Nursing, Faculty of Medicine). As in (a) above.

For the Session 1927-28 no applications for the B.Sc. in Nursing Course will be accepted.

Students in Nursing should consult the special announcement of the School of Nursing, which may be secured on application either to the Registrar's Office or to the Superintendent of Nurses, University Hospital.

(i) **For B.Sc. in Agriculture** (Faculty of Agriculture), eighteen courses as offered in three years of High School work or the equivalent. The eighteen courses are as follows:

1. English Composition 1, 2 and 3; English Literature 1, 2 and 3.
2. History 1, 2 and 3.
3. Algebra 1 and 2.
4. Geometry 1 and 2.
5. General Science 1.
6. Arithmetic 1.
7. Three courses from the Science Group.

Students from the Provincial Schools of Agriculture will be admitted to the Second Year Agriculture upon presenting:

(1) A certificate of qualification from any of the Provincial Schools of Agriculture.

PERCENTAGE

(2) A certificate covering the following subjects:

English Composition 3, English Literature 3.

History 3.

Algebra 1 and 2.

Geometry 1.

Arithmetic 1.

A short reading course in British History.

Students from the Provincial Schools of Agriculture presenting a certificate of qualification in Agriculture, but having incomplete matriculation may be given matriculation credit for the following subjects: Agriculture, Chemistry, Physics. Such students with deficiencies may make arrangements to complete matriculation at the School of Agriculture, at Olds, or may enter the University upon the presentation of a certificate of qualification from a School of Agriculture, but will be required to complete the Matriculation subjects listed in (2) before entering the final year.

Students of mature age who have not yet completed matriculation as outlined above may present any special ground which might entitle them to consideration for admission.

(j) **For B.H.Ec.** (Faculty of Agriculture) the entrance requirement is the same as for students from the Schools of Agriculture who enter the B.Sc. course in Agriculture.

It should be noted that lectures in Agriculture begin on the same dates as other Faculties.

PERCENTAGE REQUIRED

The pass mark, in harmony with the requirements of the Department of Education, is 50% in each course. The Departmental regulations regarding spelling apply to matriculation candidates.

Academic Honours

FIRST CLASS GENERAL STANDING

Those students, other than Honours students, who, in the work of any one year, attain an average mark of not less than eighty-five per cent., are awarded First Class General Standing.

DEGREES WITH HONOURS

See regulations under the Faculty of Arts and Sciences.

DEGREES WITH DISTINCTION

See regulations under the Faculty of Law.

PRIZES

The Canadian Northland Resources Prize, offered annually by Mr. J. F. K. English, B.A. '23. The prize is open to all undergraduates of the University of Alberta, and is to be awarded on the basis of an essay of not more than 8,000 words dealing with some phase of the northland of Canada. The territory open for investigation by the students competing will include the mainland territory lying north of the 55th parallel of latitude, bounded on the west by the Rocky Mountains and on the east by the western shore line of Hudson Bay. The material of the essay must be based in part at least on actual observation in the field, and is open to students whose work has taken them north of the 55th parallel of latitude. The judges shall be a committee of three chosen by the President of the University, and their decision shall be final. The essay must be submitted to the President's Office in typewritten form not later than February 1st. Further information may be obtained from the Registrar's Office.

Applied Science

The Association of Professional Engineers of Alberta offers awards of \$50.00 cash to be made to one student in each of the Civil, Electrical and Mining Engineering Departments

PRIZES

on the basis of individual talent, application and diligent study. The Association also offers a prize of \$50.00 for the student making the best record in the first three years of Applied Science, who, after the completion of his work in the University of Alberta, gives proof of registration at some other university in Mechanical Engineering.

Classics

The Jane Alexander Memorial Prize in Latin of the value of \$10.00, offered annually by Professor W. H. Alexander in memory of his mother. Awarded on the basis of the regular work in Latin of the second year, to be given to the student making the highest mark in the usual term and final examinations of that year.

English

The Harold Waldo Huestis Memorial Prize of the value of \$25, to be awarded each year, to the second year student, taking five full courses, who has obtained the highest mark in English of the second year, provided that the student has displayed marked proficiency in English Composition.

The Samuel Richard Hosford Memorial Prize, books of the value of \$15, to be awarded to the undergraduate student making the best record in English 53.

Geology

The Jane Alexander Memorial Prize in Geology, of the value of \$10.00, offered annually by Professor W. H. Alexander, in memory of his mother. Awarded on the basis of the regular tests and examinations in Geology 51 and 54.

The Stutchbury Research Prize, of the value of \$25.00, offered by Howard Stutchbury, Esq., to be awarded at the Spring Convocation to a fourth year student in the departments of Geology or Mining Engineering for a paper on original work. Originality of method and of presentation will be the basis of award, which will be made by a committee of three, chosen from the members of the Scientific and Industrial Research Council of Alberta.

History

The History Club Prize of books of the value of \$15.00, offered by the History Club of the University of Alberta, to the student making the best record in History 2, provided such

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student receives first class standing on his year's work in History and passes in all other subjects.

The Gordon Stanley Fife Memorial Prize, of the value of \$25.00, offered by Professor A. L. Burt, in memory of his colleague, and to be awarded to the graduating student who has taken the highest average mark in two or more Senior History Courses.

Law

The Carswell Prizes in the Faculty of Law are offered annually by the Carswell Company, Limited, Law Publishers, of Toronto. These are to be awarded to the students obtaining the highest general standing in their respective years.

To the student securing the highest average in the first year, books to the value of Twenty Dollars.

To the student securing the highest average in the second year, books to the value of Thirty Dollars.

To the student securing the highest average in the third year, books to the value of Fifty Dollars.

The Raymond James Memorial Prize.—A prize of the value of \$25.00, offered annually by Mrs. E. L. FitzSimon, LL.B. 1926, in memory of her brother, to be awarded to the final year student in Law who has obtained the highest mark for an essay appertaining to equity, the actual subject to be selected each year by the Dean of the Faculty. The subject of the essay for 1927-28 and a further statement of the conditions upon which the prize is to be awarded will be announced at a later date.

Mathematics

A Prize in Mathematics 1, of the value of \$10.00, offered by Professor E. W. Sheldon.

Medicine

The Prize in the History of Medicine, offered by Dr. H. C. Jamieson, for an essay on some phase of the earlier development of Anatomy or Physiology.

Mining

The Canadian Institute of Mining and Metallurgy offers a prize to the value of \$25.00 to the student in the fifth year of Mining Engineering who presents the best description of

MEDALS

an actual piece of work in Mining Engineering, research or otherwise, that the student has been engaged on or assisted in.

Also a prize of \$15.00 open under the same conditions to students in the fourth year of Mining Engineering.

Moderns

The Vallée French Prize in books, offered by Professor A. Vallée of Laval University, in remembrance of the Honourable P. J. O. Chauveau, first Prime Minister of the Province of Quebec, open to undergraduates registered in French 1—3, and to be awarded on the results of the year's work.

Société du Parler Français Prize of books to the value of \$10.00, offered by the Société du Parler Français, to the student enrolled in French 5—4 who makes the best average record in the test and final examinations in this course.

The Wells Prize.—A prize of \$25.00, offered by Mrs. R. B. Wells, for each of French 51 and French 55. Each prize is awarded to the student making the highest standing in the given course, particular consideration being given to progress in oral work.

Philosophy

The Halley Hamilton Gaetz Memorial Prize, offered by Mr. W. R. Wees, B.A. '23, consisting of a set of books, to be awarded to the student in junior years taking the highest marks in Philosophy 2, the granting of the prize to any student to be conditional upon his registration in a full year's work, and to his obtaining not less than 80% of the possible marks in the subject.

MEDALS

Agriculture

The Governor-General's Gold Medal, offered by His Excellency the Governor-General of Canada, for the highest standing in the two senior years of the Faculty of Agriculture.

Arts and Sciences

The Women's University Club Gold Medal, offered by the Women's University Club of Edmonton, and awarded to that student in the graduating class of the Faculty of Arts and Sciences, general course, who takes the highest standing in

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the eight senior courses required in the third and fourth years, provided that an average mark of not less than seventy-five per cent. be obtained.

English

The Alexander Cameron Rutherford Gold Medal, offered by the Honourable Alexander Cameron Rutherford, and open for competition to students in the graduating year, reading for honours in the Department of English.

Law

The Chief Justice's Gold Medal, offered by the Honourable Horace Harvey, Chief Justice of Alberta, for highest standing in the work prescribed for the LL.B. degree, provided that the student obtains an average of not less than 75%.

Mathematics

The James Ramsey Gold Medal, offered by James Ramsey, Esq., and open to students in the graduating year, reading for honours in the Department of Mathematics.

Medicine

The Moshier Memorial Medal, offered by the Volunteer Overseas Medical Officers' Association of Edmonton, in memory of the late Lieutenant-Colonel H. H. Moshier, to be awarded for general proficiency in the Faculty of Medicine, upon completion of the courses offered at this University.

Moderns

Le Club Laverendrye Gold Medal in French, offered annually by Le Club Laverendrye and awarded to the student who receives the highest standing in the general courses in French of the third and fourth years, provided that the student's record is considered satisfactory by the Council of the Faculty of Arts and Sciences.

Pharmacy

The Pharmaceutical Association Medals, offered by the Alberta Pharmaceutical Association.

(a) A gold medal to the student making the highest average mark in all subjects of the final year of the Licentiate Course, provided that the mark obtained in any subject does

UNDERGRADUATE SCHOLARSHIPS

not fall below 60% and that the average obtained in all subjects is not less than 75%.

(b) A gold medal to the student making the highest average mark in all subjects of the final year of the Degree Course, provided that the mark in any subject does not fall below 60% and that the average obtained in all subjects is not less than 75%.

BURSARIES, SCHOLARSHIPS AND FELLOWSHIPS **1.—MATRICULATION**

Women's University Club Matriculation Scholarship

The Women's University Club Scholarship of \$50.00 is open to women students only, on the results of the June Grade XII examinations for highest standing in English (Literature and Composition), History, French and Latin, provided the student passes at least three other units, making a total of at least eight fourth-year High School units, and obtains a mark of 75% in the four subjects named, the scholarship to be payable to the student in attendance at the University during the session following the award, and to be applied towards defraying the fees for tuition.

The P. Burns Scholarship

The P. Burns Scholarship, offered by Mr. P. Burns, of Calgary, of the value of \$150 annually. Awarded for the highest standing obtained by a student in Calgary on the Grade XII examinations, payable after the student is in actual attendance at the University.

The Daughters of the Empire Matriculation Bursary

The Daughters of the Empire Bursary of \$1,200.00 (\$300 a year for four years), offered by the Imperial Order of the Daughters of the Empire as a part of its War Memorial, awarded to the candidate in Matriculation examinations, who, in the judgment of the Committee, best meets the purpose in view of the foundation of the Bursary. The candidate must be the son or daughter of a killed or permanently disabled soldier, sailor, or member of the air force. It is tenable at the University of Alberta, where a rebate of \$25.00 on tuition fees is allowed to the holder of this scholarship.

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2.—UNDERGRADUATE AND GRADUATE

Agriculture

The Senate and Board of Governors of the University offer a scholarship of the value of \$50.00 to be awarded on the basis of the work of the first year in Agriculture, provided that an average of not less than seventy-five per cent. be obtained on the work of the year. Further, the award will be contingent upon the student's proceeding with the work of the second year and will be paid only after the student has been in actual attendance in the second year of the course.

Applied Science

The Senate and Board of Governors of the University offer a scholarship of the value of \$50.00 to be awarded on the basis of the work of the first year in Applied Science, under the same regulations as that offered in the Faculty of Agriculture.

Arts and Sciences

The Women's University Club Scholarship, of the value of \$50.00, will be awarded to the woman student who takes the highest standing in the work of the First Year of the Faculty of Arts and Sciences, provided that, to secure the award, an average of not less than seventy-five per cent. be obtained on the work of the year. Further, the award will be contingent upon the student's proceeding with the work of the second year and will be paid only after the student has been in actual attendance in the second year of her course.

The Senate and Board of Governors of the University offer a scholarship of the value of \$50.00 for competition among the men students of the first year in Arts, on the same basis as in Agriculture.

The Edmonton Section of the Council of Jewish Women offers annually a scholarship of the value of \$50.00 to the student who takes the highest standing in the work of the Second Year of the Faculty of Arts and Sciences, provided that to secure the award an average of not less than 75% be obtained on the work of the year. Further, the award will be contingent on the student's proceeding with the work of the Third Year and will be paid only after the student has been in actual attendance in the Third Year of his, or her, course.

UNDERGRADUATE SCHOLARSHIPS

Law

The Senate and Board of Governors of the University offer a scholarship of the value of \$50.00 for competition among the students of the first year in the Faculty of Law, on the same basis as in Agriculture.

Medicine

The Scholarships of the College of Physicians and Surgeons of the Province of Alberta are five in number, value \$50.00 each, and will be awarded as follows:

1. One to the student taking the highest average mark in the work of the freshman year.
2. One to the student taking the highest average mark in all the courses in Anatomy of the second and third years.
3. One to the student taking the highest average mark in all courses in pure Physiology of the third and fourth years.
4. One to the student taking the highest average mark in Surgery at the end of the final year.
5. One to the student taking the highest average mark in Medicine at the end of the final year.

Pharmacy

Pharmaceutical Association Scholarships, offered by the Alberta Pharmaceutical Association:

1. A scholarship of \$40.00 to the student making the highest average mark in all subjects of the first year of the Licensing Course, provided that the mark obtained in any subject does not fall below 60%.
2. A scholarship of \$40.00 to the student making the highest average mark in all subjects of the third year of the Degree Course, provided that the mark obtained in any subject does not fall below 60%.

English

The Aikins Scholarship in English Language and Literature, the gift of Sir James Aikins, is of the value of \$125.00 per annum. It is open to graduating students who have pursued the study of English throughout the first three undergraduate years—the scholarship being tenable during the fourth year; provided that such students shall have obtained

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satisfactory standing in English 1 or its equivalent, and not less than seventy-five per cent. in English of the second year. If a candidate takes only one course in English in the third year he must obtain not less than seventy-five per cent. If he takes more than one course, his average must not be less than seventy-five per cent. and in no English course must he fall below second class standing.

The selection of the scholar will be made by a committee appointed by the President; the committee to consider not only the academic standing of the candidate, but also evidence of intellectual grasp and of proficiency in expression, as displayed in such essays or other tests as the committee may impose.

The Lloyd Hartnoll Bishop Memorial Fellowship in English Literature has been founded by E. T. Bishop, Esq., and is to be conferred on the graduating student who, during his undergraduate course, has shown unmistakable evidence of literary ability. The present emolument of this Fellowship is \$200.00. Attention is called to the fact that this is a special award and not necessarily given each year.

French

French Government Bursary. Since 1923, the French Government has offered a Bursary of the approximate value of 10,000 francs, to allow for a year's study in a French University. The award is made by the French Consul-General for Canada on the nomination of the President of the University. Candidates for the Bursary must be advanced students in French. Applications should be submitted to the President's Office not later than July 15th, 1927.

Mathematics

The Russell Roberts Caldwell Memorial Scholarship, given annually by Dr. A. L. Caldwell, in memory of his brother Russell Roberts Caldwell, killed in action during the Great War. The scholarship, of the value of \$50.00, is open to students in the second year of the Faculty of Arts and Sciences who shall have obtained satisfactory standing in Mathematics 1 or its equivalent, not less than seventy-five per cent. in each of Mathematics 7 and Mathematics 22, and an average standing of not less than sixty-five per cent. on the whole year. The award will be made on the recommend-

UNDERGRADUATE SCHOLARSHIPS

ation of the Department of Mathematics. The University reserves the right to withhold the scholarship in any year should no candidates of sufficient merit present themselves. The scholarship is tenable during the third year, on condition that the recipient read for honours in Mathematics during that year.

The Federation of University Women in Canada Travelling Scholarship

The Travelling Scholarship of the Federation of University Women in Canada, of the value of \$1,250, available for study or research work, is open to any woman holding a degree from a Canadian University. In general, preference will be given to those candidates who have completed at least one or two years at graduate study and have a definite research in preparation. The award is based on evidence of character and ability of the candidate and promise of success in the subject to which she is devoting herself.

Application is to be made by letter to the Convener of the Scholarship Committee, Mrs. Douglas Thom, 2220 16th Avenue, Regina, Saskatchewan, not later than February 1st.

The letter of application should contain an account of the applicant's educational training and a statement in full of the plan of study or research she intends to pursue. This information should be accompanied by:

1. A written statement from the President of the College or University awarding the degrees held by the applicant to the effect that her application as a suitable candidate is approved.

2. Testimonials as to her health, character, ability and scholarship. All testimonials and references should be in writing. The committee will assume no responsibility for making enquiry beyond the papers submitted.

3. Theses, papers or reports of investigation published or unpublished.

All papers submitted by the applicant will be returned if postage is sent for that purpose. Confidential letters will be kept.

The choice of the University at which the successful candidate shall pursue her study or research work is left to the Committee of Selection in consultation with the candidate.

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The scholarship is payable in two equal instalments on July 1st and January 1st by the Treasurer of the Federation, provided the successful applicant sends her address for those dates.

At the end of her tenure, the candidate shall send a report of her work, together with a statement of its worth from the professor or other authority conversant with her research to the Convener of the Scholarship Committee.

Daughters of the Empire Post-Graduate Overseas Scholarship

The scholarship, founded by the Imperial Order, Daughters of the Empire, as part of the War Memorial of the Order, is of the value of \$1,400.00 tenable for one year in any British University, the subjects of study being specified as British and Imperial History, the economics and government of the Empire and Dominion, or any subject vital to the interest of the Empire.

Application is to be made to Mrs. W. D. Spence, 43 Lemarchand Mansion, Edmonton, Alberta, not later than October 25th.

The selection of a candidate will take place during the month of November. The candidate selected must be prepared to begin his or her course in Great Britain in the following autumn.

Candidates may be men or women. They must be British born, naturalized allies, or naturalized neutrals, with at least five years' residence in Canada, and unmarried. Except in the case of a returned soldier, sailor or airman, they must have passed their 19th but not their 27th birthday in October of the year during which they begin their course. In the case of a man who has served in the Great War, he must not have passed his 29th birthday in October of the year in which he begins his course. Each candidate must hold a degree from a recognized university or degree-granting college in the province in which he or she is making application, or be in his or her final year proceeding to a degree, and shall be entitled to apply in the province in which the university from which he or she graduates is situated, irrespective of his or her place of residence in Canada. In provinces where there is no university, the War Memorial Committee in that Province shall grant the scholarship to a man or woman from that province who has graduated from any Canadian university or college,

UNDERGRADUATE SCHOLARSHIPS

or is in his or her final year proceeding to a degree. Candidates from a province having no university may apply only in that province, not in the province where they are attending college or have taken a degree.

In choosing the scholars, the Committee of Selection will give consideration not only to literary and academic attainments, but also to personal character and physical fitness. If possible, personal interviews with the candidates will be arranged. Other conditions being equal, preference will be given to a returned soldier, his sister, son or daughter.

The following students have obtained this Scholarship:

1922, Bertha Lawrence; 1924, John Wesley McClung; 1926, James Brown; 1927, Marjorie Sherlock.

The 1851 Exhibition Science Research Scholarship

Three of these Scholarships are granted each year in Canada and may be applied for by students of eight Canadian universities, of which this University is one. They are of the value of £250 per annum for two, or in rare instances, three years, together with certain possible allowances for fees and travelling expenses. The object of the Scholarship is "to enable students to continue the prosecution of science with a view to aiding in its advance or in its application to the industries of the country." Open to students of not less than three years' standing who have shown evidence of capacity for original research and is tenable at any University or other institution approved by the Committee.

In 1923 this scholarship was awarded to Julius Ferdinand Lehmann; in 1925 to Charles Leonard Huskins.

The Rhodes Scholarship

There is available for the Province of Alberta each year one Rhodes Scholarship.

Until further notice, this Scholarship is of the value of £450 a year for three years, subject to the continued approval of the College at Oxford of which the scholar is a member.

Subject in all cases to review and confirmation by the Trustees, appointments will be made by the local Committee of Selection nominated by the Trustees.

UNIVERSITY OF ALBERTA

The following conditions under which candidates are eligible apply throughout Canada:

- (1) Candidates must be British subjects, with at least five years' domicile in Canada, and unmarried. They must have passed their nineteenth but not have passed their twenty-fifth birthday, on October 1st of the year for which they are elected. Except in special circumstances candidates will not be selected who have passed their twenty-second birthday on October 1st of the year for which they are elected. No exceptions to the age conditions can be admitted.
- (2) Candidates must be at least in their Sophomore Year at some recognized degree-granting University or College of Canada, and (if elected) complete the work of that year before coming into residence at Oxford.
- (3) Candidates may compete either in the Province in which they have acquired any considerable part of their educational qualification, or in the Province in which they have their ordinary private domicile, home or residence. Committees of Selection are responsible for deciding whether a candidate qualifies under the provisions of this clause.

The selection of Rhodes Scholars is carried out with careful regard to the definition of fitness given by Mr. Rhodes in his will, viz.:

- (a) Ability and scholastic attainments;
- (b) Force of character and capacity for leadership as shown by "manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindliness, unselfishness and fellowship";
- (c) Physical vigor, as shown by "fondness for and success in manly outdoor sports".

Mr. Rhodes wished his scholars to be chosen especially for the possession of those mental and moral qualities, which would be "likely in after-life to guide them to esteem the performance of public duties as their highest aim." He explained for the guidance of those who would have the choice of Scholars that his ideal scholar would be characterized by a strong combination of the first two sets of qualities. While he also desired that all his Scholars should have manliness and physical vigor, his main emphasis was laid upon intellectual

RHODES SCHOLARSHIP

and moral force, and he did not intend that his Scholars should be chosen for "athletic" pre-eminence in the narrower sense of that term. Committees of Selection bear these wishes of the Founder most carefully in mind when determining the weight to be attached to the different qualities in each of the candidates who offer themselves for selection. Some distinction either of character or of intellect is looked for, and close attention is given to Mr. Rhodes' wish that the performance of public duties should be his Scholars' highest aim.

Poverty does not give any special claim to a Scholarship. The Trustees desire that the strongest candidate be appointed, irrespective of his financial circumstances.

In the absence of strong candidates, the Committees make no appointment.

The Committees will summon to a personal interview such of the candidates as they choose. Save under exceptional circumstances, no candidates will be appointed without such an interview.

Applications, with all the required material, must be in the hands of the Secretary of the Committee of Selection for the Province of Alberta on or before October 20th. Application forms and information regarding documents to be submitted may be obtained from the Secretary, Ralph V. Bellamy, Esq., 722 Tegler Building, Edmonton.

The following students have obtained this Scholarship:

1913, Walters Farrel Dyde; 1915, Henry Grattan Nolan; 1917, Henry Alexander Dyde; 1918, Alan Burnside Harvey; 1919, Daniel Roland Michener; 1920, Walker Dunham; 1921, George Victor Ferguson; 1922, Stuart Perry Hamilton; 1923, Robert Lincoln Lamb; 1924, John McIntyre Cassels; 1925, Edward Hunter Gowan; 1926, Clarence Sutherland Campbell; 1927, No award.

University Regulations

FEES

The University reserves to itself the right to change these fees from year to year without notice.

Make all cheques payable to **"University of Alberta."**

I.—In Arts and Sciences:

- (a) B.A., B.Sc. in Arts, B.Sc. in Pharmacy, B.Sc. in H.Ec., undergraduate and conditioned students:

Instruction per session—

*Resident students	\$ 60.00
Non-resident students	70.00
"A" Language courses, each	15.00
Registration	2.00
Students' Union	10.00
Medical Service	5.00
**Caution Money	5.00
Library	5.00

- (b) B.Com., undergraduate and conditioned students:

Instruction per session—

*Resident students	\$ 75.00
Non-resident students	85.00
"A" Language courses, each	15.00
Registration, Students' Union, Medical Service, **Caution Money and Library fees, as in I. (a).	

- (c) Special and Partial students:

Instruction per session per course	15.00
Registration	3.00
Students' Union	7.50
Medical Service, **Caution Money, and Library fees, as in I. (a).	

FEES

II.—In Applied Science:

(a) Undergraduates and conditioned students:

Instruction per session, first year—

*Resident students	60.00
Non-resident students	70.00
"A" Language courses, each	15.00

Registration, Students' Union, Medical Service, **Caution Money and Library fees, as in I. (a).

Instruction per session, subsequent years—

*Resident students	100.00
Non-resident students	110.00

Registration, Students' Union, Medical Service, **Caution Money and Library fees, as in I. (a).

(b) Special Students:

Instruction per session per course.....	25.00
Registration	5.00
Students' Union	7.50
Medical Service, **Caution Money and Library fees, as in I. (a).	

III.—In Law:

Instruction per session—

*Resident students	90.00
Non-resident students	100.00
"A" Language courses, each	15.00

Registration, Students' Union, Medical Service, **Caution Money and Library fees, as in I. (a).

IV.—In Medicine:

Instruction per session, first year—

*Resident students	120.00
Non-resident students	130.00
"A" Language courses, each	15.00

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Registration, Students' Union, Medical
Service, **Caution Money and
Library fees, as in I. (a).

Instruction per session, subsequent years—	
*Resident students	170.00
Non-resident students	180.00

Registration, Students' Union, Medical
Service, **Caution Money and Library
fees, as in I. (a).

(\$5.00 additional charge for each
term if made in two payments.)

V.—In Dentistry:

Instruction per session, first year—	
*Resident students	120.00
Non-resident students	130.00
“A” Language courses, each.....	15.00

Registration, Students' Union, Medical
Service, **Caution Money and Library
fees, as in I. (a).

Instruction per session, second and third years—	
*Resident students	170.00
Non-resident students	180.00

Registration, Students' Union, Medical
Service, **Caution Money and Library
fees, as in I. (a).

Instruction per session, fourth and fifth years—	
*Resident students	200.00
Non-resident students	210.00

Registration, Students' Union, Medical
Service, **Caution Money and Library
fees, as in I. (a).

(\$5.00 additional charge for each
term if made in two payments.)

VI.—In Nursing:

(a) Degree Course:

Instruction per session:	
*Resident students	60.00
Non-resident students	70.00

FEES

Registration, Students' Union, Medical Service, **Caution Money and Library fees, as in I. (a).

(b) Diploma Course:
Students' Union 5.00

VII.—In Pharmacy Licensing Course:

Instruction per session, first year—

*Resident students 75.00
Non-resident students 85.00
"A" Language courses, each 15.00

Registration, Students' Union, Medical Service, **Caution Money and Library fees, as in I. (a).

Instruction per session, second year—

*Resident students 100.00
Non-resident students 110.00

Registration, Students' Union, Medical Service, **Caution Money and Library fees, as in I. (a).

VIII.—In Agriculture:

(a) B.S.A., B.Sc. in Agric., B.H. Ec.:

Instruction per session:

*Resident students 50.00
Non-resident students 60.00

Registration, Students' Union, Medical Service, **Caution Money and Library fees as in I. (a).

(b) Diploma Course:

Registration 3.00
Students' Union 4.50
Library 2.50
Medical Service and **Caution Money fees as in I. (a).

*A resident student is one who resides during the whole of the academic year in one of the University Residences.

**Every student is required to deposit \$5.00 Caution Money to cover damages done to furniture, apparatus, books, etc. This amount, less any necessary deductions, will be returned at the end of the session. Breakages exceeding this amount must be paid for before the student is permitted to take any examinations.

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IX.—In Graduate Courses:

Annual Registration fee for M.A., M.Sc. or B.Educ.	2.00
Annual Registration fee for B.D.	5.00
Master of Arts and Master of Science.	60.00
(This amount may be paid in instal- ments as the work progresses.)	
Bachelor of Education, per subject.	15.00
Library	2.50

X.—Summer Session:

Instruction, per course	15.00
Registration	1.00
Students' Union	2.00
Library	1.00

XI.—For viséing Certificates 4.00

XII.—For Transcript of Record..... 3.00

XIII.—For Supplemental Examinations and De- ferred Finals:

Each subject 4.00

For Special Supplementals:

First subject 10.00

Each additional subject 5.00

XIV.—For D.Sc. degree 85.00

XV.—For ad eundem degrees 10.00

XVI.—For Final examinations for any Degree or
Diploma, including parchment 10.00

For Degree or Diploma "in absentia" an
additional fee of 15.00

Application for Degree or Diploma in
absentia must be made to the Registrar
at least three days before Convocation.
The whole amount will be refunded if the
student is unsuccessful.

XVII.—For Summer Reading Courses in Languages 5.00

ATTENDANCE

ROOM AND BOARD

Room and Board per session, Oct. 1st to May 1st.....	\$259.00
Board only, payable in advance, per month.....	25.00
Meal ticket (21 meals)	7.25
Summer Session: Room and Board in Residence, July 4th to August 13th	51.00

REGISTRATION

There are certain forms to be filled out by applicants for enrolment in the University. A new student should, early in the summer, secure from the Registrar of the University, an application form which he should fill out and return as soon as possible. Moreover, the student should himself write to the Registrar of the Department of Education, of the Province in which he obtained his preliminary education, not later than July 15th, asking him to send directly to the Registrar of the University a confidential transcript of the complete High School record of the applicant, including Matriculation standing. This should be done to avoid delays embarrassing both to the student and the University.

All students desiring admission to the University for the first time (including all First Year students) must complete their registration in conference with advisers at the University on Monday and Tuesday, September 26th and 27.

All other students must complete their registration in conference with advisers at the University during the period Tuesday and Wednesday, September 27th and 28th. First year lectures begin on Wednesday, September 28th; other lectures on Thursday, September 29th. Students wishing to register before the registration period should communicate with the Registrar.

Students are required to register for courses in which they are deficient before registering for other courses. The Faculty Councils reserve the right to adjust courses to meet the requirements of the time-table. The programme of work for which a student seeks registration is in every case subject to the approval of the Registrar and the Faculty concerned.

ATTENDANCE AND LATENESS

(a) Strict attendance rules calling for close attendance upon lectures from the beginning of the session are enforced.

UNIVERSITY OF ALBERTA

Late entrance is inadvisable, because a bad start in the courses seriously affects the student's work and may even result in the loss of the whole year.

(b) Students are required to register, in person, by the dates specified in the front of the Calendar.

(c) Registration after the end of the registration period will be permitted only upon the following conditions:

(1) Illness, accident, family affliction, employment under contract, or other exceptional circumstances, provided that any application for late admission shall be accompanied by a confirmatory certificate, and

(2) The payment of a special registration fee of \$3.00.

(d) Students, other than the members of the graduating class, are excluded from the final examination in any course if the absences exceed ten periods in courses of three periods a week throughout the session, six periods in courses of two periods a week, or four periods in courses of one period a week. The exception made above in the case of the members of the graduating class applies to lecture periods but not to laboratory periods.

(e) Absences are counted from the beginning of the term.

(f) Excuses for absence may be presented in cases of (1) illness or physical disability, (2) domestic affliction, and (3) in certain other cases.

(1) Students desiring to present excuses for absence on the ground of sickness or disability must, within one week of the date when that absence occurred or when the period of absence terminated, obtain absence cards at the office of the Registrar. These cards must be returned to the office of the Registrar, with Physician's signature, within one week of the date stamped on the card. The Registrar will promptly forward to the Director of Medical Services the names of such students and the dates for which they claim exemption, and upon the endorsement of the Director of Medical Services, such excuses will be filed to constitute part of the year's attendance record. Absence cards are required for **each** absence, even in the case of students suffering from chronic or recur-

SESSIONAL EXAMINATIONS

rent disabilities. No other form of excuse in regard to sickness or physical disability will be accepted.

- (2) Excuses for absence on the ground of domestic affliction must be presented to the Registrar direct and also within one week as specified in (1).
- (3) Students are required to present absence cards in every case where credit for absences is to be obtained, such as transfer of attendance record from one course to another, lectures missed because of conflicts with examinations, etc. Any excuse, other than those already mentioned, which a student cares to present must be made in person to the Registrar and the judgment of that officer upon its validity shall be final, subject to an appeal to the General Faculty Council. Moreover all such absence cards must be presented within the same time limit as in (1).

(g) Students who are **late** for any lecture or university exercise will be marked absent upon the records of the instructor in charge, unless at the end of the period in question they account satisfactorily to the instructor for their lateness (in which case he will, without destroying the mark of absence, indicate his acceptance of the excuse by making an X over the a). The decision of the instructor shall be final, subject only to an appeal to the Committee on Examinations.

(h) Students desiring **leave of absence** in any given course must communicate their desire to the Registrar. When such leave of absence has been granted, the student is exempted from the operation of the attendance rule above.

EXAMINATIONS

The University examinations are conducted by University Examining Boards appointed by the Senate and are under the direction of the Committee on Examinations.

SESSIONAL EXAMINATIONS

(a) In Junior courses, as a rule, there are held two one-hour tests and one final examination. 15% of the whole credit in the course is assigned to each test. In English 1, however, and in the composition courses in French, German, Greek and Latin, tests are supplemented by weekly exercises

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throughout the year, and to these exercises and tests is assigned 50% of the whole credit in the course. The same arrangement exists with regard to junior courses in Mathematics 1, History 1 and Physics 1 where tests are held more frequently.

(b) In certain senior courses the test examination method is followed, and 15% of the whole credit in the course is assigned to each test. In other senior courses the assignment of 30% for term work is allotted to essays and practical examinations. In certain senior courses, subject to the approval of the General Faculty Council, term tests may be eliminated and the evaluation be on the final examination alone. Announcement is made at the beginning of the session as to the policy to be pursued by each department in this respect.

(c) In each course there is held a final examination. 70% of the whole credit in the course is assigned to this examination, except in the case of the junior courses referred to in paragraph (a) where the allotment is 50% only, and in the senior courses referred to in (b). The final examinations are held at the end of the session except in courses completed before Christmas; in such courses the final examinations are held during the last week of lectures in December. In these courses the allotment of marks is 70% to the final examination and 30% to the test.

(d) When a student is absent from a test his mark for that test is zero. However, in case of illness or domestic affliction an application for aegrotat standing (i.e., an allowance of 50% for a test missed by illness, if required for a pass) will be considered if such application is made immediately, in writing, to the Registrar. In the case of illness causing absence from final examination, the general rule is that supplementals in September are granted to students of the first and second years whose term record is satisfactory. In the case of senior students, the faculty may grant aegrotat standing under similar circumstances.

(e) When intercollegiate games or conferences fall within any period of tests, members and officers of the teams and official delegates to conferences, shall, at least one week before the beginning of the test period, make a request in writing to the Registrar in order that a readjustment of the time-table may be considered.

EXAMINATIONS

(f) In the publication of standing in the various courses, students are grouped by classes, the first class comprising those who have obtained 85% and over, the second class those who have obtained marks from 65% to 84%, and the third class those who have obtained marks from 50% to 64%. In general, 50% is the minimum for a pass. In the case of "A" languages and of Greek 1, the pass mark is 65%. Also in the third and fourth years in the Faculty of Arts and Sciences four of the required eight senior courses must be passed with not less than 65%.

(g) Final examination papers may be re-read on an appeal being made to the Registrar within sixty days after the publication of the results, accompanied by a fee of \$5 for each paper; the fee to be returned if the appeal is sustained and the student passed in the course.

(h) Each student in the graduating year must deposit a fee of \$10.00 for his final examination. If he fails to graduate this fee will be refunded. If he is successful but is unable to attend Convocation an extra fee of \$15.00 is assessed in order to have the degree conferred "in absentia". Application to obtain the degree "in absentia" accompanied by the fee must be received at the Office of the Registrar at least three days before Convocation, otherwise the degree will not be conferred. Students are expected to attend Convocation if at all possible.

SUPPLEMENTAL EXAMINATIONS

(a) Supplemental examinations are conducted by the University in September of each year. Students who have failed in any course the preceding year, but whose attendance record was satisfactory, may apply for permission to take supplementals. The pass mark required for supplementals in all examinations except English 1, Greek 1 and the "A" languages is 60%. The pass mark for Greek 1 and the "A" languages is 70%. Credits obtained in the tests as described above under Sessional Examinations will not apply except in English 1, in which term marks will be taken into consideration, and 50% will be the pass mark. In the case of finals deferred because of illness, term marks will be taken into consideration, and 50% will be the pass mark. In the case of marks obtained in term work in laboratories, where such marks are part of the final results, laboratory marks will

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count in both the final and supplemental results, unless some special difficulty is found; the pass standing being 60% on the supplemental and an average of 55% between the supplemental and the term work.

(b) Medical students who cannot take Christmas finals because of sickness will be granted supplemental examinations in the spring. Graduating students failing in one subject will be allowed the privilege of a supplemental in the autumn and, failing this, the opportunity of again writing in the spring examination without repeating attendance, except in certain scientific subjects where, in the opinion of the department concerned, a second attendance will be necessary. Students in the final year failing a completed subject at Christmas will be allowed a supplemental in the spring.

(c) Students neglecting to take, or failing to pass, the supplemental examination are required to repeat the course.

(d) In the case of the students in (b) above and other students who, with the permission of the Faculty Council, write the final examination without attendance, the pass mark shall be 60%.

(e) Special supplemental examinations are granted by the Committee on Examinations only after careful consideration of the reasons for failure to write at the regular time for supplementals. In the case of illness, the application must be accompanied by a medical certificate, and in the case of employment under contract, by a statement from the employer certifying the date on which the contract expired.

Applications must be made before the 10th day of October, and these examinations, if granted; shall be conducted as soon as possible thereafter, at dates determined by the Committee on Examinations.

(f) A fee of \$4.00 is charged for each supplemental examination. For any special examination to be held at any other time than the regular date for supplemental examinations a fee of \$10.00 is charged for the first subject and \$5.00 for each additional subject taken at the same time.

PROFESSIONAL EXAMINATIONS

Either by statutory provision or by agreement the examinations for the right to secure registration with the following professional societies in the Province of Alberta are under the control of the University:

DISCIPLINE

The Alberta Association of Architects.
The Alberta Land Surveyor's Association.
The Alberta Dental Association.
The College of Physicians and Surgeons of Alberta.
The Law Society of Alberta.
The Alberta Pharmaceutical Association.
The Institute of Chartered Accountants of Alberta.
The Association of Registered Nurses of Alberta.
The Association of Professional Engineers of Alberta.
The Veterinary Association of Alberta.
The Alberta Optometric Association.

Information with respect to these examinations may be obtained on application to the Registrar.

DISCIPLINE

The Provost is the chief disciplinary officer of the University. He exercises general supervision over the conduct and welfare of the students, especially with regard to the students in residence.

In the case of dishonesty or any serious indiscipline in the class room, the instructor has the authority of suspension from the class room. Further action is to be taken by a committee consisting of the Provost, the Department concerned, and the Dean of the Faculty concerned.

By a resolution of the Senate, a Committee on Student Affairs has been constituted as follows: "The President of the University, the Chancellor, the Chairman of the Board, the Provost, the Chairman of the Freshman Committee, one member to be elected from each Faculty; two members to be elected from the Senate (these not to be Faculty representatives); the Adviser to women students; the president of the Students' Union; the Chairman of the Men's House Committee; the president of the Athletic Society; the president of the Literary Department of the Students' Union; the president of the Wauneita Society; the editor-in-chief of "The Gateway"; three members to be elected from the Students' Council.

Under the same resolution, the duties of this committee are:

- (1) "to deal with
 - (a) all matters referred to in the University Act, Article 41, subsections 18 and 19;

UNIVERSITY OF ALBERTA

- (b) all other matters relating to students' interests not therein referred to provided that in event of any decision of this committee being challenged by a non-student member, the decision must, to be valid, be ratified by a majority of the non-student members present; provided further that the right of appeal to the Senate against any such decision shall lie with the student members."
- (2) For misconduct in the lecture-room, a student may be required by the instructor to leave the lecture-room. Persistent misconduct shall be reported to the President of the University, who may suspend from lectures pending the action of the Committee on Student Affairs.
- (3) In all cases of discipline involving offences against the student body, a student may appeal from decisions of that body or of any court constituted by it to the Committee on Student Affairs.
- (4) No student shall be permitted to continue in attendance at the University whose presence is for any cause deemed by the Committee on Student Affairs prejudicial to the interests of the University.
- (5) All regulations affecting the Students' Union and the Students' Court are subject to the approval of the Committee on Student Affairs.

ATHLETICS

The following disciplinary ruling with regard to Athletics, submitted by the Faculty of Arts and Sciences and the Students' Union, was adopted by the Senate at its meeting of March 31st, 1911:

"Hereafter no persons except **bona fide students** who are in attendance at the University, or at one of the group of organized affiliated colleges carrying full work and whose scholastic record is certified as satisfactory by the Faculty Council of the University or by the respective colleges in which they are registered, shall be permitted to play on or be officers of any athletic team representing the University of Alberta."

RESIDENCES

Satisfactory scholastic standing shall be understood, in general, to mean passing on three-fifths of a full year's course of lectures of university grade.

The Faculty Council has entrusted to the Committee on Scholastic Standing the administration of these regulations which have been enlarged to include the following activities:

1. Athletics: All competitions with outside organizations whether conducted within or outside of the University.
2. Dramatic Performances: (a) The annual play of the Dramatic Society, (b) the French play.
3. Debates: All debates with outside organizations, whether conducted within or outside of the University.
4. Such other activities of general interest as may be submitted to the Faculty for its approval from time to time.

By **bona fide students** shall be understood:

- (a) Students who are doing full undergraduate work in the University.
- (b) Graduate students in attendance following any full course of studies leading to a degree.
- (c) Students in affiliated colleges carrying a full year's work leading to a diploma or certificate and taking two full courses of university grade in the University.

WITHDRAWAL OF STUDENTS

In accordance with the regulation of the Senate, passed May 11th, 1921, a student whose record in the class room, in tests, or in final examinations is unsatisfactory, may at any time be required to withdraw from the University.

RESIDENCES

Residential accommodation is provided in the University for four hundred students. All students not living with parents or guardians must reside in the University residences or in places approved of by the University authorities.

Rooms will be assigned by the Provost, and applications for reservations, accompanied by twelve dollars (\$12.00) must be in the hands of the Bursar by September 7th. Reservations will not be held after September 28th, unless arrangements are made with the Bursar.

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Each student to whom a room is assigned will be required to deposit one dollar (\$1.00) for keys and will receive a red ticket showing name, number of room, and date of entry. Upon presentation of this ticket to the House Superintendent, keys will be issued. Students vacating rooms during, or at the end of the term, must return this red ticket to the Cashier, signed by the House Superintendent, showing date of leaving, in order to obtain any rebate or deposit on keys.

Students must notify the Bursar before vacating rooms, otherwise no rebate will be considered. No exchange of rooms will be allowed unless arrangements are made with the Bursar and approved by the Provost.

Room and Board are payable in advance. Arrangements for monthly payments may be made with the Bursar. Students leaving the University during Christmas holidays will be allowed rebate at the rate of eighty cents per day for Board only, from December 22nd to January 3rd (inclusive), but application must be made to the Bursar before leaving so that rebates may be arranged. Students arriving before October 1st or leaving after May 1st will be charged at the rate of \$1.25 per day.

Students not residing in the University residences may obtain meals in the University dining room by purchasing red and white tickets from the Cashier at the rate of twenty-five dollars (\$25.00) per month, which arrangement is presumed to continue throughout the term of 1927-28 unless the students notify the Bursar otherwise. Students may also obtain white tickets for twenty-one meals at the rate of \$7.25 per ticket, which may be used at any time.

The conduct of students in residence is subject to the authority of the House Committee, under the Board of Governors. This committee consists of the Provost, the Adviser to Women Students and two resident students from each of the University Halls. A special sub-committee of the House Committee, under the direction of the Adviser to Women Students will deal with matters relating solely to the women students. The resident members shall be fourth year or graduate students and shall be elected not later than two weeks after the beginning of the session. Any vacancy thereafter occurring shall be filled at a special election to be held within two weeks after the occurrence of the said vacancy.

ACADEMIC COSTUME

Only students who have been in residence at least one year shall have the right to vote at elections of members of the House Committee.

MEDICAL SERVICES

All students registered in the University are required by the Students' Union to pay an annual fee of five dollars (\$5.00), which is applied to the maintenance of a Medical Service Fund. This trust fund is administered by a committee consisting of the President of the University, the Provost, the Medical Director and the President of the Students' Union. In return for the fee paid, students are entitled to medical treatment under such conditions and provisions as have been outlined in specially printed pamphlets, copies of which will be furnished to students at the time of registration. Every student should read these instructions carefully. Students must secure from the Bursar a medical service card to be presented to the Director on demand.

STUDENT FUNCTIONS

All student functions are conducted under the general supervision of the Provost, and except by special permission are held in the University buildings. A written communication for permission to use a University building for such purpose must be addressed to the Provost at least ten days before the date set for any function.

MEETINGS OF STUDENT SOCIETIES

Applications for the use of rooms for students' meetings must be made to the Registrar.

ACADEMIC COSTUME

All gowns are to be of the customary Cambridge shape: i.e., for undergraduates a black stuff gown not falling below the knee with round sleeve cut above elbow; for bachelors, a black stuff gown falling below the knee with full sleeve cut to elbow and terminating in a point; for masters, a black stuff or silk gown falling below the knee with long sleeves with semi-circular cut at bottom.

Hoods are to be of the Oxford pattern, except those for the doctorate, which shall be of the Cambridge form.

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Bachelors' and Masters' hoods are to be of a spruce green silk, with, for bachelors, a border (1½ inches each way); for masters, a full lining of the color distinctive of the faculty.

FACULTY COLOURS

The faculty colours are:

For Arts (including LL.D.)	Green and White.
For Science	Light Green.
For Law	Cream.
For Agriculture	Pale Blue.
For Education	Lilac.
For Medicine.....	Rose.
For Dentistry	Buff.
For Pharmacy	Cinnamon.
For Divinity	Purple.
For Household Economics.....	Pink.
For Commerce	Silver Gray.
For Nursing (B.Sc.)	Crimson.

Doctors' hoods are to be of scarlet silk, with a full lining of the respective faculty colour, the M.D. hood to be of the master's pattern.

Doctors are entitled to wear a full dress scarlet robe faced with silk of the respective faculty colour.

All caps are to be of the ordinary black trencher shape with black tassels, with a black velvet cap with gold cord for doctor's full dress.

DEGREES IN ABSENTIA

Graduands who are unable to be present at Convocation should make application to the Registrar for the degree or diploma to be conferred in absentia, at least three days before the date of Convocation. A special fee of fifteen dollars (\$15.00) is charged for this privilege.

For the convenience of students, the University maintains a book store where text-books prescribed in the University calendar may be obtained. Stationery, drawing materials, University sweaters, pennants and other accessories are also kept in stock.

Organization of Faculties

The University reserves the right to modify or withdraw for the session any of the courses here outlined.

FACULTY OF ARTS AND SCIENCES

The courses leading to the degrees of B.A., B.Sc. in Arts, B.Sc. in Household Economics, B.Sc. in Pharmacy and B.Com. are divided into two groups—junior courses and senior courses. A course is to be regarded as designating normally three hours lectures or three hours lectures and three hours laboratory work in a subject each week throughout the session. The junior courses are designed for students in the first and second years, the senior courses for students in the third and fourth years. The junior courses are, in general, to be regarded as preparatory to the senior courses.

Certain University courses in the first and second years are offered in co-operation with the Summer School for Teachers which is held annually in the months of July and August at the University of Alberta. Detailed information may be obtained from the Registrar.

The special attention of students is drawn to the following regulations dealing with conditions or deficiencies at Matriculation or in the Junior years:

1. Students entering the second year with Grade XII, but with no languages, shall be required to spend four years at the University in order to obtain a degree, that is, their first two years at the University must be spent in doing first and second year work only;
2. Students who enter with Grade XII, but deficient in one language, shall not be allowed to enter the third year with an "A" language course unpassed.
3. Students who enter with Grade XI, but with deficiencies or conditions, shall not be allowed to enter the second year with a matriculation condition or deficiency.

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Students registered in the course leading to the degrees of B.A. or B.Sc. in Arts, general course, must continue two senior subjects throughout the third and fourth years.

Although the normal minimum passing mark for courses given in this University is 50%, a special regulation of the Faculty of Arts and Sciences requires that four of the necessary eight senior courses shall be passed with Second Class standing or a mark of at least 65%. This requirement shall apply also to students in the courses leading to the degrees of Bachelor of Commerce and of Bachelor of Science in Household Economics. With respect to the Bachelor of Science in Pharmacy course, four second class standings obtained in any of the senior courses is required.

Students in theology may be exempted from two senior courses selected from Divisions A and B by presenting certificates of having satisfactorily completed an equivalent amount of work in one of the organized affiliated theological colleges.

A common first year is laid down for all students in the Faculty of Arts and Sciences, but thereafter, subject to a classification of studies into three general groups, courses are, with certain restrictions, largely optional.

Divisions of Courses of Instruction.

- A. Languages and Literatures.
- B. Philosophy, History and Political Economy.
- C. Mathematics and Natural Sciences.

In accordance with this scheme the Junior, Senior, Honours and Graduate courses leading to the degrees of B.A., B.Sc. in Arts, M.A., M.Sc. and B.Educ. are classified as follows:

FACULTY OF ARTS AND SCIENCES

DIVISION A

Lang. and Lit.

DIVISION B

Philos., Hist. and
Pol. Econ.

DIVISION C

Math. and Natural
Sciences

*Junior Courses—First Year:

English: 1.
French: A, 1—3.
Greek: 1.
German: A, 1—3.
Latin: A, 1—3.

Hist.: 1.

Math.: 1.
Physics: 1.

*Junior Courses—Second Year:

English: 2.
French: 5—4.
German: 2—4.
Greek: 2—4.

Hist.: 2, 3.
Phil.: 1, 2.

Bot.: 1.
Chem.: 1.
Math.: 7, 22.
Physics: 3a & 3b, 6,
8, 12 §§.
Zoology: 1.

Latin: 2—4.

Pol. Econ.: 1.

Senior Courses:

Classics in English: 51.
§Comparative Literature: 51.
English: 52, 53, 57, 59,
60, 62.
French: 51, 52, 54, 55.
German: 54, 55, 56, 57.
Greek: 51, 52, 53.
Latin: 51, 52, 53, 54,
55, 56, 57.
Old and New Testament Literature: 51.

**Ancient Hist.: 51,
52.
Architecture: 62.
Education: 53, 54, 55.
Hist.: 53, 54, 56, 57,
58.
Phil.: 51, 52, 53, 54,
55.
Psychol.: 51, 52, 54,
55.
Pol. Ec.: 63, 64, 65,
66, 67, 68.

Biochemistry: 61.
Botany: 52, 53, 54.
Chem.: 51, 52, 54, 58.
Entomology: 61, 62, 63.
Geol.: 51, 52, 53, 54,
55, 58.
Math.: 53, 55, 56, 57,
58, 61, 62, 64.
Physics: 51, 53, 54, 57.
Physiol.: 60, 61.
H. Econ.: 51, 52.

Honours and Graduate Courses:

English: 104, 109, 110.
French: 101, 102.
German: 101, 102, 103,
104.
Greek: 101, 102.
Latin: 102, 103, 104,
105, 106, 111, 113.

Hist.: 101, 102.
Philos.: 101, 102, 103,
107, 108.
Pol. Ec.: 101, 102, 103,
120-130.
Psychol.: 101, 102,
103, 104, 105.

Bot.: 101, 102, 103.
Chem.: 101, 102, 103,
104.
Geol.: 101, 102, 103.
Math.: 101, 102, 103,
104, 105.
Physics: 101.

*And Phys. Ed.: 1 & 2.

§See under Department of Modern Languages.

**See under Department of Classics.

§§See page 206.

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DEGREE OF B.A. OR B.Sc. IN ARTS

FIRST YEAR

SUBJECTS	Course No.	Lect. Hrs.	Pge.
English	English 1	3	164
*French	French 1-3	3	190
*German	German 1-3	3	193
*Greek	Greek 1	3	153
*Latin	Latin 1-3	3	150
History	History 1	3	173
Mathematics	Mathematics 1	3	181
Physics	Physics 1	3†	204
Physical Education	Physical Education 1.....	2	220

†Two hours a week of laboratory work are also required.

*Any two of these are to be taken, but students presenting two sciences for matriculation must take a beginner's course language in the first year. See "A" Courses under departmental announcements.

With a view to enabling students to overtake entrance deficiencies in the languages, the opportunity is offered to students who have obtained at least 75% in an "A" language course to pursue during the following summer, under the direction of the Department concerned, the respective sequent course in French 1, German 1 or Latin 1, provided that it is the intention to continue the language in question through the second year. Similarly, students taking a first year course in a language, who obtain 85%, may with the consent of the department concerned, read the authors of the second year course during the summer and write these off at the time of the supplemental examinations in September, at which time second class standing must be obtained. No credit will be granted for the course unless and until a senior course in the language concerned is successfully completed in the following year. Information respecting details may be obtained from the Registrar.

B.A.—GENERAL COURSE

- Second Year:**
1. One course from Division A.
 2. One course from Division B.
 3. One course from Division C.

B.A.—GENERAL COURSE

4. 5. *Two options.
6. Physical Education 2.

*Not more than two courses are to be selected from any one department.

Students entering with Grade XII standing must select either Chemistry or Physics of the second year.

- Third Year:**
1. 2. Two courses from Division A.
 3. One course from Division B.
 4. *One option.

or

1. 2. Two courses from Division B.
3. One course from Division A.
4. *One option.

*Not more than two courses to be selected from any one department.

- Fourth Year:**
1. 2. Two courses from Division A.
 3. One course from Division B.
 4. *One option.

or

1. 2. Two courses from Division B.
3. One course from Division A.
4. *One option.

*Not more than two courses to be selected from any one department.

B.Sc. IN ARTS—GENERAL COURSE

The distinction between the B.A. and the B.Sc. in Arts becomes apparent in the second year. The student who in his second year chooses three courses from Division C is regarded as a candidate for the degree of B.Sc. in Arts.

- Second Year:**
1. One course from Division A.
 2. An approved course from Division A or B.
 3. 4. 5. *Three courses from Division C.
 6. Physical Education 2.

*Not more than two courses to be selected from any one department.

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- Third Year:** 1. 2. Two courses from Division C.
3. One course from Division A or Division B.
4. *One option.

*This optional course to be related to one of the courses from Division C and to be officially approved.

- Fourth Year:** 1. 2. Two courses from Division C.
3. One course from Division A or Division B.
4. *One option.

*This optional course to be related to one of the courses from Division C and to be officially approved.

SUMMER SESSION, 1927

July 4th—Aug. 13th.

The University has always been anxious to put its resources at the disposition of teachers, and fully recognizes that it stands in a special relation to the teaching profession of the Province.

Since 1919 the University has conducted a Summer Session in co-operation with the Summer School for Teachers administered by the Alberta Department of Education. Many teachers have availed themselves of the University courses offered at the Summer Session and thus been enabled to make progress towards the bachelor's degree.

It will be recalled by those interested that in 1926 the regulations governing the Summer Session were revised with a view to facilitating the progress of teachers towards degrees. Under the new plan teachers holding a Grade XII certificate and having had at least three years of professional service are granted concessions in respect to attendance. Teachers proposing to take advantage of these concessions must attend the Summer Session at which instruction is given involving a general treatment of the subject matter of the courses concerned. Satisfactory attendance at a given summer course is deemed as fulfilling the ordinary sessional attendance requirements of the course. At the close of the Summer Session there is a preliminary test examination, and students on leaving are equipped with syllabi, text-books and references necessary for private study during the winter. Students will be expected to keep in touch during this winter period of private study with the University departments under whose supervision they

HONOURS REQUIREMENTS

have been working. Final examinations, covering the whole scope of the courses given at the Summer Session, will be held at certain provincial centres at the time of the regular University examinations in the spring.

The attention of teachers is particularly called to the courses in Psychology and Education especially designed to meet the needs of teachers who are desirous of making themselves conversant with present-day movements and developments in educational science.

The University requires that the study of two languages be carried as far at least as the end of the first year. It also requires a laboratory course in Physics in the first year. Realizing that these demands involve difficulties of preparation in the case of many teachers otherwise desirous of undertaking academic work, the University will offer courses for approved teachers in first year French, Latin and Physics. As an additional facility courses will also be offered in elementary German and first year Mathematics.

In the case of first year French, Latin and Physics these courses will be given—not in accord with the winter study plan described above—but in their entirety with double periods per day throughout the Summer Session. It may be further pointed out that students presenting Physics 2 of the High School are required to select in the second year a course in either Chemistry or Physics; or else to take the laboratory of Physics 1 in the Summer Session.

While the University reserves the right to withdraw or modify any of the courses mentioned below, it is expected, subject to adequate enrolment, that the following courses will be offered at the Summer Session of 1927:

Junior Courses

German A
French 1—3.
Latin 1—3.
Mathematics 1.
Physics 1.
Chemistry 1.
English 2.
French 5—4.
History 2.
Mathematics 7.
Political Economy 1.

Senior Courses

Ancient History 52.
Chemistry 52.
Classics in English 51.
Education 55.
Comparative Literature 51.
Education 55.
English 57.
French 52.
History 58.
Mathematics 62.
Political Economy 64.
Psychology 55.

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Detailed information respecting these courses, some of the more advanced of which may be taken for higher degrees, will be found under departmental announcements, page 127.

Information as to adjustments of outstanding half courses under the old scheme may be had from the Registrar.

As the Summer Session is held at the same time as the Departmental Summer School for Teachers, space in the Residential Halls is always at a premium. In order, therefore, that timely arrangements may be made by the University authorities in respect to both instruction and living accommodation, prospective students are urged to notify the Registrar's and Bursar's offices at the earliest possible date of their intention to attend.

DEGREES WITH HONOURS IN THE FACULTY OF ARTS AND SCIENCES

1. The courses in honours differ from the general courses in that they are planned with a view to specialization.
2. Admission to read for honours involves on the part of the student the possession of First Year Standing in the Faculty of Arts and Sciences, Senior Matriculation, or equivalent standing. The honours course covers a subsequent period of four years.
3. Students desirous of reading for honours must consult the head of the Department concerned as early as their university career as possible; they are responsible for registering in their second year according to the regulations in the following pages.
4. Formal application to read for honours should be addressed to the Registrar before the end of the Second Year.
5. Permission to read for honours is granted by the Faculty Council on the recommendation of the Committee on Honours.
6. Students who fail to obtain honours standing at the end of their third or fourth years shall be transferred to the general course and become responsible for fulfilling the requirements of that course in so far as these differ from those of their honours course.
7. Students in the second year, intending to read for honours in the three following years are required to

HONOURS REQUIREMENTS

take courses in at least two divisions, but in the third and fourth years may confine their work to one division, but not to one department. Restriction of work to one department in the fifth year shall in all cases be subject to the special approval of the Committee on Honours.

8. An honours degree shall be granted only if the course is completed within four years after the commencement of the first year of specific honours work, unless further grace be granted for special reasons by the Faculty Council upon the recommendation of the Committee on Honours.
9. Students reading for honours in one of the scientific departments are permitted at the time of their registration to choose either the B.A. or the B.Sc. degree, to be granted on the successful completion of their courses. The attention of such students is directed, however, to regulation 1 under Graduate Degrees. See page 121.
10. The selection of all options available in a given honours course is subject to the approval of the Committee on Honours.

HONOURS COURSES—DEPARTMENTAL REQUIREMENTS

Department of Botany

Second Year: 1. Botany 1.

2. 3. Two options from Division C (two of Physics, Chemistry, Zoology).
4. One option from Division A.
5. One option from Division B.

Third Year: 1. Botany 53.

2. Botany 101.
3. One option (Chemistry recommended).
4. One option (Geology recommended).

Fourth Year: 1. Botany 54.

2. Botany 102.
3. One of Geology, Biochemistry, Physiology.
4. One option (Chemistry recommended).

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- Fifth Year:**
1. Botany 52.
 2. Botany 103.
 3. One of Geology, Biochemistry, Physiology.
 4. One option (Chemistry recommended).

Department of Chemistry

The subjects of the First Year are the same as those of the General Course, but students are advised to select German and French as their language options.

- Second Year:**
1. Chemistry 1.
 2. Physics 6 or 8.
 3. Mathematics 7 or 55.
 4. One option in Division A or B.
 5. One option.

- Third Year:**
1. 2. Chemistry 51, 52.
 3. One option (Mathematics 55 unless already taken).
 4. One option.

- Fourth Year:**
1. 2. 3. Chemistry 101 or 102, 54, 58.
 4. One option.

- Fifth Year:**
1. Chemistry 101 or 102 or 103 or 104.
 2. Biochemistry 61.
 3. 4. Two options.

Department of Classics

- Second Year:**
1. Greek 1.
 2. Latin 2—4.
 3. Classics in English 51 or Ancient History 52.
 4. English 2, or a modern language of the second year.
 5. One option from Division A, B or C.

- Third Year:**
1. Greek 2—4.
 2. One senior Latin course (of which one hour weekly will be given to Roman private life.)
 3. Latin and Greek prose and sight translation (one course).
 4. Ancient History 52, or Classics in English 51.
 5. One option among senior courses of Division A, B or C.

HONOURS REQUIREMENTS

- Fourth Year:** 1. One senior Greek course (of which one hour weekly will be given to Greek private life).
2. One course in Honours Greek.
3. One course in Honours Latin.
4. One option among the senior courses of Division A, B or C.

- Fifth Year:** 1. 2. Either Greek or Latin as a major, two courses.
3. One reading course with particular reference to classical philology.
4. Latin or Greek as a minor, one course.

Honours in Latin and German

- Second Year:** 1. German 2—4.
2. Latin 2—4.
3. Philosophy 2.
4. English 2, or French 5—4, or Greek 2.
5. Classics in English 51.

- Third Year:** 1. One Latin course.
2. One German course.
3. 4. Two options from Division A or Division B.

- Fourth Year:** 1. One Latin course.
2. One German course.
3. 4. Two options from Division A or Division B.

- Fifth Year:** 1. 2. Two Latin courses.
3. One German course.
4. One option from Division A or Division B.
(For Honours in German and Latin, see under Department of Modern Languages.)

Honours in Latin and French

- Second Year:** 1. Latin 2—4.
2. French 5—4.
3. English 2, or Greek 2—4, or German 2—4.
4. Philosophy 2.
5. Classics in English 51.

- Third Year:** 1. One Latin course.
2. One French course.
3. 4. Two options from Division A or Division B.

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Fourth Year: 1. One Latin course.
2. One French course.
3. 4. Two options from Division A or Division B.

Fifth Year: 1. 2. Two Latin courses.
3. One French course.
4. One option from Division A or Division B.
(For Honours in French and Latin, see under Department of Modern Languages.)

Honours in Greek and French (or German)

Second Year: 1. Greek 1.
2. French 5—4, or German 2—4.
3. Philosophy 2.
4. English 2, or Latin 2—4, or German 2—4,
or French 5—4.
5. Classics in English 51.

Third Year: 1. Greek 2—4.
2. One senior French (or German) course.
3. 4. Two options from Division A or B.

Fourth Year: 1. 2. Two senior Greek courses.
3. One French (or German) course.
4. One option from Division A or B.

Fifth Year: As for Fourth Year.

Department of English

Second Year: 1. 2. Continuation of the two languages taken
in first year.
3. Classics in English 51.
4. English 2.
5. A course in History.*

Third Year: 1. Continuation of one of the languages studied
in first and second years.
2. Honours Course in English (English 104).
3. Pass Course in English (English 53).
4. One option from Division B.*

Fourth Year: 1. Honours Course in English (English 110).
2. 3. Two pass courses in English (to be chosen
from 52, 57, 59, 60).
4. One option from Division A or B.

HONOURS REQUIREMENTS

- Fifth Year:**
1. Honours Course in English (English 109).
 2. Pass course in English (to be chosen from 52, 57, 59, 60).
 3. One option from Division A or B.

*To be selected after consultation with the Department of English.

Department of Geology

- Second Year:**
1. Chemistry 1.
 2. Zoology 1.
 3. Botany 1.
 4. Mathematics 7.
 5. One option from Division A or B.

- Third Year:**
1. Chemistry 51.
 2. Geology 51.
 3. One option from Division C.
 4. One option from Division A or B.

- Fourth Year:**
1. 2. Geology 52, 53.
 3. Chemistry 54.
 4. One option.

- Fifth Year:**
1. 2. 3. Geology 54, 55, 58.
 4. One option.

Students are advised to have a reading knowledge of both French and German.

Department of History

- Second Year:**
1. History 2.
 2. Political Economy 1.
 3. English 2.
 4. 5. Two options.

- Third Year:**
1. History 3.
 2. Philosophy 2.
 3. History 53 or 54.
 4. 5. Two senior options.

- Fourth Year:**
1. 2. 3. History 56, 57, 102.
 4. One option.

- Fifth Year:**
1. 2. History 58, 101.
 3. Political Economy 63.
 4. One option.

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Department of Mathematics

- Second Year:** 1. 2. Mathematics 7, 22.
3. Physics (junior course).
4. One option from Division A or B.
5. One option.
- Third Year:** 1. Mathematics 55.
2. Mathematics (another senior course).
3. Physics (senior course).
4. Physics (another senior course) or Political Economy (senior course) or Physical Chemistry or Philosophy.
- Fourth Year:** 1. Mathematics (Honours course).
2. Mathematics (senior course).
3. One option.
4. Mathematics (another senior course).
- Fifth Year:** 1. Mathematics (Honours course).
2. Mathematics (senior course).
3. One option.

Department of Modern Languages

- Second Year:** 1. French 5—4.
2. German 2—4.
3. English 2, or (for students intending to specialize in French) Latin 2—4.
4. History 2.
5. Philosophy 1 or 2.
- Third Year:** 1. 2. French 52, 55.
3. German 54.
4. Classics in English 51.
or
1. 2. German 54, 57.
3. French 52.
4. Classics in English 51.
- Fourth Year:** 1. French 51.
2. German 55.
3. Philosophy 51.
4. One option.
or
1. German 55.
2. French 51.
3. Philosophy 51.
4. One option.

HONOURS REQUIREMENTS

- Fifth Year:**
1. French 54.
 2. Rom. Phil. 101-102.
 3. 4. Two options.
- or
1. German 56.
 2. 3. German Phil. 101 and 102 or 103 and 104.
 4. 5. Two options.

Special prescribed summer readings will be allotted to all Honours students at the close of their third year in Honours. A thesis, the topic of which must be selected before the close of the third year, will be required of all students reading for Honours. This thesis must be in the hands of the head of the Department by March 31 of the graduating year.

Honours in French and Latin

- Second Year:**
1. French 5—4.
 2. Latin 2—4.
 3. History 2.
 4. Philosophy 1 or 2.
 5. English 2 or German 2—4.

- Third Year:**
1. 2. Two French courses.
 3. One Latin course.
 4. One option in a third subject from Division A or B.

- Fourth Year:**
1. One French course.
 2. One Latin course.
 3. Philosophy 51.
 4. One option.

- Fifth Year:**
1. One French course.
 2. One Latin course.
 3. Psychology 55.
 4. One option.

(For Honours in Latin and French, see under Dept. of Classics.)

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Honours in German and Latin

- Second Year:** 1. German 2—4.
2. Latin 2—4.
3. History 2.
4. Philosophy 1 or 2.
5. English 2 or French 5—4.
- Third Year:** 1. 2. Two German courses.
3. One Latin course.
4. Option from Division A or Division B.
- Fourth Year:** 1. One German course.
2. One Latin course.
3. Philosophy 51.
4. One option.
- Fifth Year:** 1. One German course.
2. One Latin course.
3. Psychology 55.
4. One option.
(For Honours in Latin and German, see under
Dept. of Classics.)

Department of Physics

First Year Arts or Grade XII must include Physics
and Mathematics.

- Second Year:** 1. Physics 3.
2. Chemistry 1.
3. Mathematics 7.
4. One option from Division A.
5. One option from Division A.
- Third Year:** 1. Physics 6.
2. Physics 12.
3. Mathematics 22.
4. Mathematics 55.
- Fourth Year:** 1. Physics, senior course.
2. Physics, another senior course.
3. Physical Chemistry or optional subject.
4. Mathematics 57.
- Fifth Year:** 1. Physics, senior course.
2. Physics or Mathematical Physics.
3. 4. Directed reading or research; or another
senior course in Physics, and an optional
subject.

HONOURS REQUIREMENTS

Department of Philosophy

- Second Year:** 1. Philosophy 1 or 2.
2. 3. One option from Division A and one from Division B.
4. 5. Two free options.

- Third Year:** 1. 2. Philosophy, two courses.
3. Psychology, one course.
4. One option in a second department.
or
1. 2. Psychology, two courses.
3. Philosophy, one course.
4. One option in a second department.

- Fourth Year:** 1. 2. Philosophy, two courses.
3. Psychology, one course.
4. One option in a second department.
or
1. 2. Psychology, two courses.
3. Philosophy, one course.
4. One option in a second department.

- Fifth Year:** 1. 2. Philosophy, two courses.
3. Psychology, one course.
4. One option in a second department.
or
1. 2. Psychology, two courses.
3. Philosophy, one course.
4. One option in a second department.

Mathematics 62 (Statistics), Physiology 62, and certain other senior courses, to be selected after consultation with the Head of Department, may be substituted for certain of the above courses in Philosophy and Psychology.

Department of Political Economy

- Second Year:** 1. Political Economy 1.
2. 3. Philosophy 2, and Mathematics 7 recommended.
4. 5. Two free options.

- Third Year:** 1. 2. Two courses in Political Economy.
3. Mathematics 61.
4. One option.

- Fourth Year:** 1. 2. 3. Three courses in Political Economy.
4. Mathematics 62.

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- Fifth Year:** 1. 2. Two courses in Political Economy.
3. 4. Two options.

THE DEGREE OF B.Sc. IN HOUSEHOLD ECONOMICS

Junior Courses.

First Year: As for B.A.

- Second Year:** 1. An approved course from Division A or B.
2. Chemistry 1.
3. Zoology 1.
4. Political Economy 1.
5. Household Economics 2 and 3.
6. Bacteriology 2, first term.
7. Household Economics 1, second term.
8. Physical Education 2.

Senior Courses.

- Third Year:** 1. One course from Division A or B.
2. Chemistry 52.
3. Physiology 60.
4. Biochemistry 61.
5. Household Economics 55.

- Fourth Year:** 1. One course from Division A or B.
2. Chemistry 59.
3. Hygiene and Sanitation 51.
4. Household Economics 56, 57, 58, 59.

For an outline of the course leading to the degree of B.H.Ec., see the Faculty of Agriculture, page 119.

THE DEGREE OF BACHELOR OF COMMERCE (B. Com.)

First Year: As for B.A.

- Second Year:** 1. Political Economy 1.
2. Geology 33 (first half); Political Economy 10 (second half).
3. A modern language (already taken for matriculation and first year).
4. Accountancy 1.
5. Chemistry 1.
6. Phys. Ed. 2.

B.Sc. IN PHARMACY

Third and Fourth Years: The equivalent of four full senior courses to be taken each year.

1. Theory of Finance (Math. 6). (Not offered 1927-28.)
2. Currency, Banking and Finance (Pol. Ec. 66). (Not offered 1927-28.)
3. Trade and Transportation (Pol. Ec. 64).
4. (a) Business Administration (Acc'y 55), and (b) Marketing (Pol. Ec. 73).
5. Commercial Law. (Not offered 1927-28.)
6. A modern language (already taken in second year).
7. Statistics (Math. 62).
8. A senior option.

By adding Philosophy 2 in the second year and by taking an additional senior option, it is possible for a student who has secured the required standing in his courses, to take the degree of Bachelor of Commerce with honours in Political Economy.

II.—THE B.Sc. DEGREE IN PHARMACY

JUNIOR COURSES—FIRST YEAR

SUBJECTS	Course No.	Lect. Hrs.	Pge.
English Composition	English 1	3	164
*French	French 1-3	3	190
History	History 1	3	173
Latin	Latin 1-3	3	150
Mathematics	Mathematics 1	3	181
Physics	Physics 1	3†	204
Physical Education	Physical Education 1.....	2	220

*German may be substituted for French at the option of the student.

†Two hours a week of laboratory work are also required.

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JUNIOR COURSES—SECOND YEAR

SUBJECTS	Course No.	Lect. Hrs.	Lab. Hrs.	Pge.
Botany	Bot. 1	3	3	140
Chemistry	Chem. 1	3	3	141
English	Eng. 2	3	..	165
*Mathematics	Math. 7	3	..	181
*History	Hist. 2	3	..	173
*Political Economy	Pol. Ec. 1	3	..	209
*Zoology	Zool. 1	3	3	215
†Latin	Lat. 36	1	..	151
Physical Education	Phys. Ed. 2	2	..	220

*History 2 is optional with Political Economy 1, and Mathematics 7 optional with Zoology 1.

†Second half session.

SENIOR COURSES—THIRD YEAR

SUBJECTS	Course No.	Lect. Hrs.	Lab. Hrs.	Pge.
†Botany	Bot. 54	3	3	140
Chemistry	Chem. 52	3	3	143
†Chemistry	Chem. 58	3	3	143
Materia Medica	M. M. 51	4	..	181
Pharmacy	Pharm. 51, 52 and 54	4	6	197
*Toxicology	Toxic. 61	1	..	215

*Second half session.

†Botany 54 and Chemistry 58 are to be taken in alternate years by third and fourth year students together. In 1927-28 Botany 54 will be given.

SENIOR COURSES—FOURTH YEAR

SUBJECTS	Course No.	Lect. Hrs.	Lab. Hrs.	Pge.
*Bacteriology	Bact. 61	1	3	138
Biochemistry	Bioch. 61	3	3	139
Chemistry	Chem. 51	3	3	142
Materia Medica	M. M. 52	4	..	181
Pharmacy	Pharm. 55 .....	..	6	198

*First half session.

†Botany 54 and Chemistry 58 are to be taken in alternate years by third and fourth year students together. In 1927-28 Botany 54 will be given.

FACULTY OF APPLIED SCIENCE

COMBINED COURSES

Courses of study have been arranged, associating the courses for the B.A. degree with those leading to degrees in the other Faculties. Details of these Combined Courses will be found in the statements of the associated Faculties; for B.A., B.Sc., on p. 100, for B.A., M.D., on p. 107, for B.Sc., M.D., on p. 108, for B.A., LL.B., on p. 114, and for B.A., B.Sc. (in Agric.), on p. 118.

FACULTY OF APPLIED SCIENCE

The University offers two groups of undergraduate courses in Applied Science leading to the B.Sc. degree; one in Engineering (Civil, Chemical, Electrical, Mining); the other in Architecture. In addition courses including certain special combinations of studies may be given for those students who are looking forward to the professions of Engineering Physics or Chemistry and who have shown particular ability and aptitude in these directions.

Graduate work also is offered leading to the M.Sc. degree.

For information about all of the above courses students should consult the Dean.

Special attention is drawn to the following regulation: New students will not be admitted to the second year conditioned in two sequent courses of the same subject.

The attention of students is called to the Combined Course leading to the degrees of B.A., B.Sc., details of which are given on page 100.

THE B.Sc. DEGREE IN ENGINEERING

The requirements of the first, second and third years of the four divisions of Engineering groups are uniform, and are designed to give the general foundation in mathematics, drawing, and in physical and chemical science, necessary to specialization in the various branches of Engineering in the last two years. In the first year a course is offered in French or German, specially adapted to an Applied Science curriculum, and in the third year a short course in the History of Science.

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Students of this University who may wish to continue their study of branches of Engineering, in which the equipment for fourth and fifth year work has not been completed, may finish their courses at certain universities in Eastern Canada, where, according to arrangement, they will be admitted **ad eundem statum**.

*JUNIOR COURSES—FIRST YEAR

SUBJECTS	Course No.	Lect. Hrs.	Pge.
English	Eng. 1	3	164
French or German	French 44	3	191
	German 44	3	193
History	History 1	3	173
Mathematics	Mathematics 2	6	181
Physics	Physics 1	3†	204
Physical Education	Physical Education 1.....	2	220

†Two hours a week of laboratory work are also required.

*Students entering the Faculty of Applied Science with standing in first year Arts or Senior Matriculation as outlined on page 39 of the Calendar will be granted clear entrance to the second year of the five-year course.

JUNIOR COURSES—SECOND YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Science & Engineering....	C.E. 10	1	..	..	..	147
Mechanical Drawing	Draw. 2 .....	..	6	..	..	160
Descriptive Geometry	Draw. 4	2	3	2	3	160
Mechanical Drawing	Draw. 5 .....	..	..	..	3	160
Elem. Math. Anal.	Math. 21	6	..	6	..	182
Elementary Mechanics	Math. 22	3	..	3	2	182
Physics	Physics 3	3	2	3	2	205
Surveying	C.E. 5 .....	..	..	1	..	146
†Survey School	C.E. 6 .....	..	..	..	..	146
Physical Education	Phys. Ed. 2....	..	2	..	2	220

†Credits for this course are included with the work of the following year.

B.Sc. IN ENGINEERING

JUNIOR COURSES—THIRD YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
†Survey School	C.E. 7 .....	..	..	..	..	146
Chemistry	Chem. 1	3	3	3	3	141
Applied Mechanics	C.E. 1 .....	..	..	3	..	145
Mapping	C.E. 2 .....	..	3	..	..	145
Materials of Const.	C.E. 3	2	..	2	..	146
History of Science	H. of Sci.	1	..	1	..	161
Mechanisms	Draw. 6 .....	..	..	..	3	161
Geology	Geol. 32	3	3	..	3	171
Calculus & Mechanics ...	Math. 25 & 26	6	2	6	..	182
Physics	Phys. 6	3	2	3	2	205

†Credits for this course are included with the work of the following year.

A—CIVIL ENGINEERING

SENIOR COURSES—FOURTH YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Hydraulics	C.E. 55	2	..	2	3	147
App. Thermodynamics ...	C.E. 57	2	..	2	3	148
Structural Design	C.E. 62	2	3	2	3	148
Applied Mechanics	C.E. 67	3	3	2	..	149
Applied Electricity	E.E. 53	2	3	2	..	161
Theory of Least Squares..	Math. 65 .....	..	..	2	3	184
San. Science	Hyg. 51	1	..	..	..	188
*Option .....	.....	3	..	3	..	

*To be approved by Dept. of C.E.

Students in Civil Engineering are strongly advised to work in a drafting office during one summer, in order to gain necessary practical experience.

UNIVERSITY OF ALBERTA

SENIOR COURSES—FIFTH YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Foundations	C.E. 52	1	..	1	..	147
Theory of Structures	C.E. 53	3	..	3	..	147
Water Supply & Sew. Disp.	C.E. 59	2	3	2	3	148
Structural Design	C.E. 63	2	3	2	3	148
Testing Lab.	C.E. 66 .....	..	3	..	3	149
Land Transportation	C.E. 74	3	..	3	..	149
Economics	Pol. Ec. 51.....	3	..	3	..	209
*Option						

*To be approved by Dept. of C.E.

Students looking forward to following a career in city management should include a course in Municipal Accountancy, ½ term, 3 hrs. per week.

B—CHEMICAL ENGINEERING

SENIOR COURSES—FOURTH YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Inorganic Chemistry	Chem. 51	3	3	3	3	142
Organic Chemistry	Chem. 52	3	3	3	3	143
Physical Chemistry	Chem. 54	3	..	3	3	143
Industrial Chemistry	Chem. 62	3	..	3	..	144
Applied Thermodynamics.	C.E. 57	2	3	2	..	148
Applied Electricity	E.E. 53	2	..	2	3	161
Applied Mechanics	C.E. 70	3	3	..	..	149

SENIOR COURSES—FIFTH YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Analytical Chemistry	Chem. 58	3	3	3	3	143
Industrial Chemistry				Seminar		
Advanced Calculus	Math. 59	3	..	..	..	183
Metallurgy	M.E. 58	2	3	2	3	187
Ore Dressing	M.E. 63	2	3	2	..	188
Hydraulics	C.E. 55	2	..	2	3	147
Political Economy	Pol. Ec. 51.....	3	..	3	..	209

B.Sc. IN ENGINEERING

C—ELECTRICAL ENGINEERING

SENIOR COURSES—FOURTH YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Applied Thermodynamics.	C.E. 57	2	..	2	3	148
Applied Mechanics	C.E. 67	3	3	2	..	149
Chemistry	Chem. 60 .....	..	..	2	..	144
Direct Currents	E.E. 51	3	3	3	3	161
Machine Design	E.E. 54 .....	..	..	2	..	162
Mechanics of Machines	E.E. 55 .....	..	..	1	1	162
Hygiene	Hyg. 51	1	..	..	..	138
Mathematics	Math. 59	3	..	..	..	183
Physics	Phys. 53	2	3	2	3	206

SENIOR COURSES—FIFTH YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Hydraulics	C.E. 55	2	..	2	3	147
Alternating Currents	E.E. 76	3	6	3	6	162
Electrical Machine Design	E.E. 77	1	2	1	2	163
El. Power Transmission and Distribution	E.E. 78	2	..	2	..	163
Elec. Communications	E.E. 80 .....	..	..	2	..	163
Industrial Applications of Electrical Power	E.E. 81	2	..	2	..	164
Electron Theory	Phys. 55	3	..	..	..	206
Economics	Pol. Ec. 51.....	3	..	3	..	209

D—MINING ENGINEERING

SENIOR COURSES—FOURTH YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Inorganic Chemistry	Chem. 51	3	3	3	3	142
Physical Chemistry	Chem. 54	3	..	3	3	143
Mineralogy	Geol. 52	3	3	3	3	171
Hydraulics	C.E. 55	2	..	2	3	147
Mechanics	C.E. 70	3	3	..	..	149
Fire Assaying	M.E. 54 .....	..	3	..	3	187
Principles of Mining	M.E. 56	3	..	3	..	187
Sanitary Science	Hyg. 51	1	..	..	..	138

UNIVERSITY OF ALBERTA
COAL MINING—FIFTH YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Fuel Analysis	M.E. 65 .....	..	6	..	6	188
Mineral Deposits	Geol. 58	3	3	3	3	173
Economics	Pol. Ec. 51.....	3	..	3	..	209
Applied Thermodynamics.	C.E. 57	2	..	2	3	148
Applied Electricity	E.E. 53	2	3	2	..	161
Prepared Fuels	M.E. 55	2	..	2	3	187
Coal Mining	M.E. 59	2	3	2	..	187

METAL MINING—FIFTH YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Quantitative Analysis	Chem. 58	3	3	3	3	143
Mineral Deposits	Geol. 58	3	3	3	3	173
Economics	Pol. Ec. 51.....	3	..	3	..	209
Applied Thermodynamics.	C.E. 57	2	..	2	..	148
Applied Electricity	E.E. 53	2	..	2	..	161
Metallurgy	M.E. 58	2	3	2	3	187
Metal Mining	M.E. 60	2	3	2	..	188
Ore Dressing	M.E. 63	2	..	2	3	188

MINING GEOLOGY—FIFTH YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Quantitative Analysis	Chem. 58	3	3	3	3	143
Stratigraphy	Geol. 56	3	3	3	3	172
Mineral Deposits	Geol. 58	3	3	3	3	173
Metal Mining	M.E. 60	2	..	2	..	188
Ore Dressing	M.E. 58	2	3	2	3	187
Economics	Pol. Ec. 51.....	3	..	3	..	209
Metallurgy	M.E. 63	2	..	2	..	188

THE B.Sc. DEGREE IN ARCHITECTURE

The first year course of study in Architecture includes a number of subjects in common with courses pertaining specially to the Faculty of Arts and Sciences, and with others pertaining specially to the Faculty of Applied Science, together with the Architectural and Freehand Drawing adapted to the Architectural curriculum. In succeed-

B.Sc. IN ARCHITECTURE

ing years scientific and technical subjects are studied to the extent required in the practice of Architecture. Throughout the course increasing attention is given to Architectural design.

For the session 1927-28 the second, third and fourth years of the Architectural Course will not be given, but students entering upon their architectural studies may take the first year as below:

JUNIOR COURSES—FIRST YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Arch. Drawing	Draw. 1 .....	..	3	..	3	160
Freehand Drawing	Draw. 3 .....	..	6	..	6	160
Descriptive Geometry	Draw. 4	2	3	2	3	160
English	English 1	3	..	3	..	164
French	French 44	3	..	3	..	191
History	History 1	3	..	3	..	173
Gen. Elem. Math.	Math. 2	6	..	6	..	181
Physics	Phys. 1	3	2	3	2	204
Physical Education	Phys. Ed. 1 ....	..	2	..	2	220

JUNIOR COURSES—SECOND YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Survey School	C.E. 6 .....	..	..	..	..	146
Arch. Drawing	Arch. 2 .....	..	3	..	3	135
Arch. Design	Arch. 3 .....	..	6	..	9	135
History of Arch.	Arch. 4	2	..	2	..	135
Building Const.	Arch. 5 .....	..	6	..	6	135
Decorative Arts	Arch. 6 .....	..	4	..	4	135
Mapping	C.E. 2 .....	..	3	..	..	145
*History of Ancient World	* Ancient Hist. 51	3	..	3	..	155
Elem. Math. Anal.	Math. 21	6	..	6	..	182
Physical Education	Phys. Ed. 2 ....	..	2	..	2	220

*See under Department of Classics.

UNIVERSITY OF ALBERTA

JUNIOR COURSES—THIRD YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Arch. Drawing	Arch. 51 .....	..	3	..	3	135
Arch. Design	Arch. 52	1	9	1	9	136
History of Arch.	Arch. 54 or 55	2	..	2	..	136
Decorative Arts	Arch. 56 .....	..	3	..	3	136
Specifications	Arch. 58	1	..	..	..	136
Building Construction	Arch. 61 .....	..	6	..	6	137
Mat. of Construction	C.E. 3	2	..	2	..	146
Applied Mechanics	C.E. 71	2	3	2	..	149
Sanitary Science	Hyg. 51	1	..	..	..	138

SENIOR COURSES—FOURTH YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Architectural Design	Arch. 52	1	9	1	9	136
History of Arch.	Arch. 55	2	..	2	..	136
Decorative Arts	Arch. 57	1	3	1	3	136
Ventilation & Heating....	Arch. 60	1	..	..	..	136
Foundations	C.E. 52	1	..	1	..	147
Structural Design	C.E. 62	1	..	1	3	148
Testing Lab.	C.E. 66 .....	..	3	..	3	149

COMBINED COURSES

I.—COMBINED COURSE LEADING TO THE DEGREES OF B.A. AND B.Sc. IN ENGINEERING

The following regulations apply to students entering the Combined Courses under the Faculty of Applied Science:

- (1) A student may not register in a Combined Course if he has any conditions or deficiencies.
- (2) Registration must be approved by the Faculty of Applied Science before the student begins work.
- (3) At the end of the first year of the Combined Course the student's record will be reviewed. If his record is unsatisfactory he must discontinue the Combined Course.

The same regulations will apply to students entering the second year of the Combined Courses directly from the High Schools.

COMBINED COURSES

- First Year:**
1. English 1.
 2. 3. Two 1 and 3 Languages.
 4. History 1.
 5. Mathematics 1.
 6. Physics 1 or 3.
 7. Physical Education 1.
- Second Year:**
1. One Junior Course from Division A or B.
 2. Language from Division A (one of the languages of the 1st year).
 3. Chemistry 1.
 4. Mathematics 21.
 5. Mathematics 22 (Mechanics).
 6. Zoology or Botany.
 7. Physical Education 2.
- Third Year:**
1. Two Senior Courses from Divisions A and B.
 2. Mathematics 55 (Calculus).
 3. Physics 3 or 6 or 8 or 12.
 4. Geology 51.
 5. Drawing 2, 4 and 5.
 6. Science and Engineering (1st half).
 - *7. C.E. 5 and C.E. 6.
- Fourth Year:**
1. *C.E. 7 (Survey School).
 2. Two Senior Courses from Division A or B.
 3. One Senior Course from Division C (Physics 6, if not already taken).
 4. Math. 56 (Mechanics).
 5. C.E. 1 (Applied Mechanics) (2nd half).
 6. C.E. 3 (Materials of Constructions).
 7. Draw. 5 (Mechanisms).
 8. C.E. 2 (Mapping) (1st half).

Where any of the courses previously taken are equivalent to the courses required in the fourth and fifth years of Applied Science, substitute courses must be arranged in conjunction with the Department concerned.

The B.A. degree may be granted at the end of fourth year.

*Credits for this course are included with those of the following year.

UNIVERSITY OF ALBERTA

Fifth Year: As in Applied Science, fourth year of Department chosen.

Sixth Year: As in Applied Science, fifth year of Department chosen.

**II.—COMBINED COURSE LEADING TO THE DEGREES
OF B.A. AND B.Sc. IN ARCHITECTURE**

(See note on page 99.)

See regulations under Combined Courses on page 100.

First Year:

1. English 1.
2. History 1.
3. Mathematics 1.
4. Physics 1.
5. French 1 and 3.
6. Latin 1 and 3.
7. Phys. Ed. 1.

Second Year:

1. English 2 or its equivalent.
2. French.
3. Chemistry.
4. Political Economy 1.
5. Mathematics 21.
6. Mathematics 22 (Mechanics).
7. Phys. Ed. 2.

Third Year:

1. English 52 or 53 or 59.
2. French 52.
3. History of the Ancient World 51.
4. Physics 3.
5. Architecture 62.
6. Drawing 3.
7. Drawing 4.

Fourth Year:

1. Two Senior Courses from Divisions A and B.
2. One Senior Course from Division C.
3. C.E. 2 (Mapping).
4. Arch. 4 (History of Architecture).
5. Arch. 5 (Building Construction).
6. Drawing 1.
7. Arch. 6 (Decorative Arts).
8. C.E. 6 (Survey School).

The B.A. degree may be granted at the end of the fourth year.

MEDICINE

Fifth Year: As in Third Year Architecture.

Sixth Year: As in Fourth Year Architecture.

FACULTY OF MEDICINE

Three courses are offered, one leading to the degree of Doctor of Medicine, another to the degree of Doctor of Dental Surgery, and the third to the degree of Bachelor of Science in Nursing.

THE DEGREE OF DOCTOR OF MEDICINE

The course leading to this degree is arranged on the basis of a six-year curriculum.

The attention of students is called to the Combined Courses leading to the degrees of B.A., M.D.; B.Sc., M.D.; B.A., D.D.S.; and B.Sc., D.D.S., details of which are given on page 107.

FIRST YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Botany	Bot. 2	3	2	3	2	140
Zoology	Zool. 2	3	3	3	3	215
Chemistry	Chem. 2	3	6	3	6	142
Physics	Physics 11	3	2	3	2	205
French or German.....	French 46 or ..	3	..	3	..	191
	German 46	3	..	3	..	194
Mathematics	Math. 32	3	..	..	..	182
Physical Education	Phys. Ed. 1....	..	2	..	2	220

SECOND YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Gross Anatomy	Anat. 4	2	12	..	..	129
Gross Anatomy	Anat. 2 & 5....	..	..	2	9	129
Histology	Anat. 10	3	4	..	..	129
Splanchnology	Anat. 12 } .....	..	..	3	7	129
Embryology (Human)	Anat. 14 } .....	..	..	..	..	130
Embryology	Zool. 3	2	3	..	..	216
Organic Chemistry	Chem. 3	3	..	3	3	142
Bacteriology	Bact. 1	1	3	137
Materia Medica	Mat. Med 3....	1	..	1	..	180

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THIRD YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Gross Anatomy	Anat. 53	1	9	1	5	130
Applied Anatomy	Anat. 54	1	3	1	3	130
Neurology	Anat. 60 .....	..	..	2	4	130
Bacteriology	Bact. 51	1	2	1	2	137
Biochemistry	Biochem. 1	3	3	3	3	139
*Pharmacy	Pharm. 3	1	..	..	..	197
Physiology	Physiol. 71	3	3	3	3	208
Bio-Physics	Phys. 59 .....	..	2	..	..	..
Psychology	Psychol. 60 ....	..	..	2	..	202

*Six laboratory periods of two hours each in Pharmacy 3 to be arranged on Thursday afternoon, second half.

FOURTH YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Medicine	Clin. Med. 51..	1	9	1	9	184
Surgery	Clin. Surg. 51	1	7	1	7	213
Physiology	Physiol. 72	3	3	3	3	208
Biochemistry	Biochem. 51 ..	..	3	..	3	139
Pharmacology	Pharm'col. 72..	2	3	2	3	209
Pathology	Path. 51	4	2	2	4	196
Clinical Microscopy	Path. 52 .....	..	2	..	..	196
Psychopathology	Psych. 61	1	..	1	..	202
Obstetrics	Obst.& Gyn. 51	..	..	2	..	196
Surgical Anatomy	Surg. Anat. 55	2	..	2	..	214

MEDICINE

FIFTH YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
*Medicine	Med. & Clin.					
	Med. 52	2	10 ½	2	10 ½	185
*Surgery	Surg. & Clin.					
	Surg. 52	1	6	1	6	213
Surgical Anatomy	Surg. Anat. 56	1	..	1	..	214
Obstetrics and Gynaecology	Obst. & Gyn. 52	1	3	1	3	196
Pathology	Path. 53	2	2	2	2	196
Clinical Laboratory	Clin. Lab. 54..	..	4	..	4	196
Clinical Pathology	Path. 55 .....	..	2	..	2	196
Ophthalmology	Ophth. 51 .....	..	..	..	1	214
Rhino-Oto-Laryngology...	R.-O.-L. 51 ....	..	1	..	..	214
Hygiene	Hygiene 53	1	..	1	2†	138
Therapeutics	Thera. 51	1 ½	..	1 ½	..	186
Med. Jurisprudence and Toxicology	Med. Jur. & Toxicol. 51	1	..	1	..	197
Path. Chem.	Biochem. 52 ..	1	..	1	..	139
Psychopathology	Psychol. 62	1	..	..	..	202

*Including History of Medicine and Ethics.

†8 2-hr. periods.

SIXTH YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
*Medicine	Clin. Med. 53..	2	11	2	11	185
†Surgery	Clin. Surg. 53..	1	6	1	6	213
Obs. and Gynaecology	Obst. & Gyn. 53	1	5	1	5	196
Clinical Pathology	Path. 55 .....	..	1	..	..	197
Ophthalmology	Ophth. 52 .....	..	1	..	..	214
Rhino-Oto-Laryngology ...	R.-O.-L. 52 ....	..	..	..	1	214
Psychiatry	Psychiatry 62	..	..	1	..	186
Therapeutics	Thera. 52 .....	..	2	..	2	186
Radiology	Radio. 51	1	..	..	..	214
‡History of Medicine	Hist. of Med...	..	..	..	..	186
Clinical Physiology	Physiol. 73 ....	..	1	..	..	208

*Including: Pediatrics, Tuberculosis, Contagious Diseases, Neurology, Dermatology and Cardiology.

†Including: Urology, Orthopaedics and Ethics.

‡Included under Medicine and Surgery.

Students will act as assistants to the Internes at the University Hospital. Out-of-town students will be required to live in residence.

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THE DEGREE OF DOCTOR OF DENTAL SURGERY

The course leading to the degree is arranged on the basis of a five-year curriculum.

FIRST YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Botany	Bot. 2	3	3	3	3	140
Zoology	Zool. 2	3	3	3	3	215
Chemistry	Chem. 2	3	6	3	6	142
Physics	Physics 11	3	2	3	2	205
French or German	French 46 or German 46	3	..	3	..	191
Mathematics	Math. 32	3	..	3	..	194
English	English 1	3	..	3	..	182
Physical Education	Phys. Ed. 1....	..	2	..	2	164
						220

SECOND YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Gross Anatomy	Anat. 20	2	2	..	..	131
Gross Anatomy	Anat. 22 .....	..	..	2	3	131
Odontology	Anat. 6 & 8....	1	4	1	4	130
Histology	Anat. 11	3	4	..	..	131
Splanchnology	Anat. 13 & 15	..	..	3	7	131
Organic Chemistry	Chem. 3	3	..	3	3	142
Prosthetic Dentistry	Dent. 1	2	4	2	4	156
Embryology	Zool. 3	2	3	..	..	216
Bacteriology	Bact. 1	1	3	..	..	137
Physical Education	Phys. Ed. 2....	..	2	..	2	220

THIRD YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Anatomy	Anat. 23	1	4	1	4	131
Materia Medica	Mat. Med. 4....	1	..	1	..	180
Prosthetic Dentistry	Dent. 3	2	4	2	4	157
Operative Dentistry	Dent. 2	1	4	1	4	157
Metallurgy	Chem. 61	1	2	1	2	144
Biochemistry	Biochem. 1	3	3	3	3	139
Physiology	Physiol. 41	3	3	3	3	207
Bacteriology	Bact. 51	1	2	1	2	137

COMBINED COURSES

FOURTH YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Medicine	Med. 54	1	..	1	..	185
Surgery	Surg. 54	1	..	1	..	214
Pathology, General	Path. 51	4	2	2	4	196
Pathology, Dental	Path. 56	1	..	1	..	197
Orthodontia	Ortho. 55	1	2	1	2	158
Operative Dentistry	Dent. 52	1	7	1	7	158
Exodontia	Dent. 54	1	1	1	1	158
Radiology	Dent. 56 .....	..	..	1	..	158
Prosthetic Dentistry	Dent. 51	1	7	1	7	157
Crown & Bridge	Dent. 53	1	3	1	3	158
Pharmacology	Pharm'col. 70 .....	..	3	..	3	209
Physiology	Physiol. 52	3	..	..	..	207

FIFTH YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Operative Dentistry	Dent. 62	1	11	1	11	158
Prosthetic Dentistry	Dent. 61	1	6	1	6	158
Crown & Bridge	Dent. 63	1	4	1	7	158
Ceramics	Dent. 69	1	1	..	..	159
Exodontia & Oral Surgery	Dent. 64	1	2	1	2	159
Orthodontia	Ortho. 65	1	2	1	2	159
Radiology	Dent. 66	1	..	..	..	159
Peridontia & Preventive Dent.	Dent. 67	1	..	1	..	159
Dental Medicine	Dent. 68	1	..	..	..	159
Ethics & Economics	Dent. 70 .....	..	..	1	..	159
Jurisprudence	Dent. 71	1	..	..	..	160
Psychology	Psychol. 60 .....	..	..	2	..	202
General Anaesthesia	Thera. 53 .....	..	..	1	..	186

I.—THE COMBINED COURSE LEADING TO THE DEGREES OF B.A. AND M.D.; AND B.A. AND D.D.S.

- First Year:**
1. English 1.
 2. History 1.
 3. Mathematics 1.
 4. Physics 11.
 - 5 and 6. French, *German, Latin, Greek: two to be taken, of which one must be a modern language.
 7. Physical Education.

UNIVERSITY OF ALBERTA

- Second Year:** 1. An option in Division A.
2. An option in Division B. (Phil. 1 or 2 recommended.)
3. Zoology 1.
4. Chemistry 1.
5. Botany 1.
6. Physical Education 2.

- Third Year:** 1. †Chemistry 51 or 58.
2, 3 and 4. Two senior courses from Division A and one from Division B, or two senior courses from Division B and one from Division A.

Fourth Year: The subjects of Second Year Medicine or Dentistry.

The B.A. degree may be granted at the end of the fourth year.

The subjects of years V, VI, VII and VIII in the course in Arts combined with Medicine are identical with those of the years III, IV, V and VI in Medicine; and those of years V, VI and VII are identical with those of years III, IV and V in Dentistry.

*Students in the combined course in Arts and Medicine, or Arts and Dentistry, who have not matriculated in German, are required to include German A in their work of the first year.

†Dental students are recommended to take Chemistry 51 and Medical students Chemistry 58.

II.—THE COMBINED COURSE LEADING TO THE DEGREES OF B.Sc. AND M.D.; AND B.Sc. AND D.D.S.

Same as I., except in the third year, which shall be as follows:

- *1. Chemistry 51 or 58.
- †2. An option from Division C, Botany recommended.
- 3. A senior course from Division A or B.
- ‡4. An option.

*Dental students are recommended to take Chemistry 51 and Medical students Chemistry 58.

†Students selecting Organic Chemistry from this division will be required to take Entomology 61 in the fourth year.

‡This option course to be related to one of the courses from Division C and to be officially approved.

SCHOOL OF NURSING

SCHOOL OF NURSING

The University of Alberta School of Nursing offers two courses for the training of the professional nurse:

I.—DIPLOMA COURSE

A three-year course leading to the Diploma and the R.N. The preliminary educational requirement for this course is Grade XI of the Province of Alberta or its equivalent. The Diploma course has a probationary period of five months in the Hospital preceding final acceptance of the student as an undergraduate nurse.

II.—B.Sc. IN NURSING*

A five-year course leading to the degree of B.Sc. in Nursing, includes three years University work under the Faculty of Medicine, and hospital training under the School of Nursing.

First Year: English 1—3 hrs. lect.
Chemistry 1—3 hrs. lect., 3 hrs. lab.
Physics 1—3 hrs. lect., 2 hrs. lab.
Zoology 1—3 hrs. lect., 3 hrs. lab.
Two of: Mathematics, Languages, History, 3 hrs. lect. each.
Physical Education 1.
Three months probation in hospital at the close of the first University session.

Second Year: A Junior Course from Division A or B—3 hrs. lect.
Anatomy 9 and 19—3 hrs. lect., 3 hrs. lab.
Physiology 41—3 hrs. lect.
Bacteriology 1—1 hr. lect., 3 hrs. lab. (half).
Philosophy 2—3 hrs. lect.
Household Economics—3 hrs. lect., 3 hrs. lab.
Physical Education 2—2 hrs.

Third and Fourth Years: Following the close of the second University year, 28 months are to be spent in hospital in training.

Fifth Year: Training in administration, public health, etc., at the University.

*For the session 1927-28 no applications for this course will be accepted.

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Any deficiencies in training shall be made up at the close of the fifth year.

Physical Education

The undergraduate students in the School of Nursing are required to attend classes in Physical Education given under the supervision of the Department of Physical Education of the University.

FACULTY OF LAW

THE DEGREE OF LL.B.

The following courses are required of all students taking the degree of Bachelor of Laws. In addition to the study of prescribed texts, particular attention will be paid to the provisions of the Statute Law relating to each subject. The Statutes to be covered will be designated by the instructor in charge of each course. Cases other than those found in the prescribed texts may be assigned by the instructor in charge of any course.

Students beginning the study of Law at this University after the first day of October, 1926, must have successfully completed the work of two years in Arts or its equivalent at this University or at some other recognized institution. In special cases, students who have successfully completed the work of at least two years in any Faculty other than Arts, at this University or at any recognized institution, may, on application to the Faculty of Law, be granted permission to enter upon the study of Law in this University. Such permission may be made conditional upon the successful completion of certain non-legal courses to be designated in each case by the Faculty of Law.

Students who have in view their ultimate call to the Alberta Bar are referred to section 35 of the Legal Profession Act (Revised Statutes of Alberta, 1922, chapter 206).

FIRST YEAR

1. Contracts 1.

3 hrs.

Kenny's Cases on Contract; Miles & Brierly: Cases Illustrating Law of Contracts; Selected Cases and Statutes.

LAW

2. Torts 1. 3 hrs.

Radcliffe & Miles: *Cases Illustrating the Principles of the Law of Torts*; Kenny's *Cases in the Law of Torts*; Selected Cases and Statutes.

3. Property 1. Real 2 hrs., Personal 1 hr.

Warren's *Cases on Property*; Williams' *Real Property*; Selected Cases and Statutes.

4. Criminal Law 1. 2 hrs.

Criminal Code of Canada (omitting sections relating to procedure); Beale's *Cases on Criminal Law* (3rd ed.); Kenny's *Cases on Criminal Law*. Selected Cases.

5. Legal History 1. 1 hr.

General Introductory Course.

Maitland's *Constitutional History of England*; Holdsworth's *History of English Law*, Vol. I.

6. History 3. 3 hrs.

7. Physical Education 1. 2 hrs.

Summer reading will be assigned in April of each year as a supplement to the foregoing courses. Students entering upon their second year will be required to pass an examination upon such assigned reading at the commencement of their second year.

All students are required to take part in such moot cases as may be assigned to them by the Faculty during the year.

SECOND YEAR

*1. Evidence 1. 2 hrs.

Thayer's *Cases*; Assigned Statutes and Cases.

*2. Canadian Constitutional Law. 3 hrs.

Selected Cases and Statutes.
(Not given 1927-28.)

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3. Partnership and Agency. 2 hrs.

Wambaugh's *Cases on Agency; The Factors Act; Ames' Cases on Partnership; The Partnership Act*; Selected Cases and Statutes.

*4. Sales. 1 hr.

Williston's *Cases on Sales; Sales of Goods Act*; Falconbridge, *Cases on Sales*; Selected Cases and Statutes. (Not given 1927-28.)

*5. Constitutional History 57. 3 hrs.

6. Criminal Procedure. 1 hr.

Provisions of the Criminal Code relating to Procedure; Selected Cases and Selected Rules of Court.

7. Practice 1. 1 hr.

8. Real Property 2. 1 hr.

The Land Titles Act; Selected Cases.

9. Equity 1. 2 hrs.

Scott's *Cases on Trusts*.

The Trustee's Act; Selected Cases and Statutes.

Summer reading will be assigned in April of each year as a supplement to the foregoing courses. Students entering upon their third year will be required to pass an examination upon such assigned reading at the commencement of their third year.

All second year students are required to argue such moot cases as may be assigned to them by the Faculty during the year.

THIRD YEAR

*1. Company and Municipal Law. 2 hrs.

Assigned Statutes and Cases.

*2. Bills and Notes. 2 hrs.

Ames' *Cases on Bills and Notes; Russell on Bills* (2nd ed.); *Bills of Exchange Act*. (Not given 1927-28.)

LAW

***3. Jurisprudence and Comparative Law. 3 hrs.**

This course is divided into two parts. The first part will be devoted to an analysis of fundamental legal concepts. The second part is an introduction to the study of Comparative Law. The principles and historical development of the Civil Law and of some modern codes derived therefrom will be briefly studied.

Holland's *Jurisprudence*; Pound's *Readings on Roman Law* (2nd ed.); Girard's *Manuel Élémentaire de Droit Romain*.

(Not given 1927-28.)

4. Legal History 2. 2 hrs.

Holdsworth's *History of English Law*, Vol. III; Selected Readings.

***5. Private International Law. 1 hr.**

6. Practice 2. 1 hr.

7. Real Property 3. 1 hr.

8. Equity 2. 1 hr.

9. Evidence 2. 1 hr.

Thayer's *Cases on Evidence*; Selected Cases and Statutes.

10. Professional Etiquette. 1 hr.

Office Management, etc.

11. Torts 2. 1 hr.

Select Topics in the Law of Torts.

12. Informal Discussion of Recent Cases and Legislation. 1 hr.

13. Bankruptcy. 1 hr. first half.

14. Wills and Administration. 1 hr. sec. half.

Assigned Cases and Statutes.

*For economy in lecture work, the Faculty may alternate courses of the second year, marked * with courses of third year marked *, the two years taking the lectures together in the courses so alternated.

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DEGREE WITH DISTINCTION

Students who have given evidence of a high standard of scholarship during their first year of law work may be permitted, with the approval of the Faculty, to take any two of the following subjects in addition to the work ordinarily required in the second and third years in Law.

- (a) Legal Psychology;
- (b) Corporation Finance (P.E. 69);
- (c) Political Science (P.E. 63);
- (d) Public International Law;
- (e) Roman Law. (Given 1927-28.)

Students who have been permitted by the Faculty of Law to take courses leading to the Degree of Bachelor of Laws with Distinction may, on special application to the Faculty of Law, be permitted to substitute one or more courses in lieu of one or more of the additional Distinction subjects enumerated above.

If the work of such students in the two extra subjects so taken and in the work of the second and third years in Law indicates a high standard of scholarship, such students may with the approval of the Faculty, be granted the degree of Bachelor of Laws with distinction.

COMBINED COURSES LEADING TO THE DEGREES OF B.A. AND LL.B.

- First Year:**
- 1. English 1.
 - 2. History 1.
 - 3. Mathematics 1.
 - 4. Physics 1.
 - *5. Legal Latin.
 - 6. Any one of the following:
 - French 1—3.
 - German 1—3.
 - Greek 1.
 - 7. Physical Education 1.

*Students entering the second year of the Combined Course in Arts and Law from Grade XII who have not Grade XII standing in Latin must take the Latin prescribed for students of the first year.

AGRICULTURE

Second Year: 1. English 2.
 2. History 3.
 3. Political Economy 1.
 4. One course from Division C.
 5. One option.
 6. Physical Education 2.

Third Year: 1. History 57 or 58.
 2. Political Economy.
 3 and 4. Two Senior Courses from Divisions A and B.
 5. One option.

Fourth Year: 1. History 57 or 58 together with
 2. Subjects of First Year Law.
 The degree of B.A. may be granted at the end of the fourth year.

Fifth Year: Subjects of Second Year Law.

Sixth Year: Subjects of Third Year Law.

FACULTY OF AGRICULTURE

In the Faculty of Agriculture courses are offered leading to the degree of B.Sc. and of B.H.Ec.

THE DEGREE OF B.Sc. IN AGRICULTURE

JUNIOR COURSES—FIRST YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Animal Husbandry	A.H. 1	2	2	2	2	132
Field Crops	F.C. 1	2	2	2	2	168
Agric. Engineering	A.E. 1	1	3	1	3	128
Horticulture	Hort. 2	3	..	3	..	176
Dairying	Dai. 1	3 lec.-lab.		3 lec.-lab.		156
Poultry	Poul. 1 .....	..	2	..	2	
Veterinary Science	Vet. Sci. 1	1	..	1	..	215
Physics	Phys. 1	3	3	3	3	204
Physical Education	Phys. Ed. 1 ....	..	2	..	2	220

Under advice a student may select either a Language Course or a course in Mathematics, or substitute Phys. 11 for Phys. 1.

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JUNIOR COURSES—SECOND YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Chemistry	Chem. 1	3	3	3	3	141
Animal Husbandry	A.H. 2 & 3.....	2	3	2	3	132
Mathematics	Math. 1	3	..	3	..	181
English	Eng. 1	3	..	3	..	164
Entomology	Ent. 1	2	..	2	..	167
History of Agriculture ...	His. of Ag. 1..	1	..	1	..	175
Agric. Engineering	A.E. 2	3 lec.-lab.		3 lec.-lab.		128
Botany	Bot. 1	3	3	3	3	140
Physical Education	Phys. Ed. 2 ...	..	2	..	2	220

Under advice students may substitute Math. 7 for Math. 1.

SENIOR COURSES—THIRD YEAR

25 to 30 hours to be selected, of which the following must be taken. See asterisks.

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
*Soils	Soils 51 & 52	2	4	2	4	212
*Field Crops	F.C. 50	2	3	2	3	168
*History of Agriculture...	His. of Ag. 2..	1	..	1	..	175
*Chemistry	Chem. 5	1	3	..	..	142
*Zoology	Zool. 4 .....	..	..	3	3	216
*Political Economy	Pol. Ec. 70.....	2	..	2	..	211
English	Eng. 3	1	..	1	..	165
Entomology	Ent. 61	3	3	3	3	167
Animal Husbandry	A.H. 61 .....	..	2	..	2	132
Horticulture	Hort. 51	2	2	2	2	176
Botany	Bot. 4 .....	..	..	1	2	140
Bacteriology	Bact. 2	1	3	..	..	137
Elements of Irrigation & Survey School	C.E. 75	2	..	2	..	150
	C.E. 6	Field work—2 weeks spring				
Mathematics	Math. 7, 61, 62	3	..	3	..	181
French or German.....	Fr. or Gr. 1-3..	3	..	3	..	190
Physics	Phys. 3	3	2	3	2	205
Chemistry	Chem. 4	3	..	3	..	142
Chemistry	Chem. 51,57,58	3	3	3	3	143

Students who choose Chem 58 as an option will be exempted from taking Chem. 5.

AGRICULTURE

SENIOR COURSES—FOURTH YEAR

24 to 28 hours to be selected from the following, of which not less than 6 hours must be selected from Group A subjects.

Group A

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
*Agric. Engineering	A.E. 51	1	3	1	3	128
Agric. Engineering	A.E. 53	1	3	1	3	129
Animal Husbandry	A.H. 63	1	..	..	..	133
Animal Husbandry	A.H. 64 .....	..	2	..	..	133
Animal Husbandry	A.H. 65 .....	..	..	3	..	133
Animal Husbandry	A.H. 66 .....	..	..	1	2	133
Animal Husbandry	A.H. 67 .....	..	6	..	..	133
Animal Husbandry	A.H. 68	3	..	..	..	134
Animal Husbandry	A.H. 69 .....	..	..	..	4	134
Animal Husbandry	A.H. 70 .....	..	..	1	..	134
Field Crops	F.C. 51	3	..	3	..	169
Field Crops	F.C. 54	3 lec.-lab.		3 lec.-lab.		169
Field Crops	F.C. 61	3	..	..	..	169
Field Crops	F.C. 62 .....	..	..	3	..	169
Soils	Soils 53	2	4	..	..	212
Soils	Soils 54 .....	..	..	2	3	212
Soils	Soils 55 .....	..	..	2	..	212
Horticulture	Hort. 52	2	2	2	2	177
Dairying	Dai. 53	4 lec.-lab.		..	..	156
Dairying	Dai. 54 .....	..	..	4 lec.-lab.		156
History of Agriculture....	Hist. of Ag. 51	1	..	1	..	176

*Open only to students who have not taken the first year course in Agric. in this University.

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Group B

SENIOR COURSES—FOURTH YEAR

SUBJECTS	Course No.	First Half		Sec. Half		Pge.
		Lect.	Lab.	Lect.	Lab.	
Agric. Bacteriology	Bact. 2	1	3	..	..	137
	Bact. 52 .....	..	..	1	3	137
Biochemistry	Bioch. 61	3	3	3	3	139
Botany	Bot.	3	3	3	3	140
Chemistry	Chem. 51, 57, or 58	3	3	3	3	143
Elements of Irrigation & Survey School	C.E. 75	2	..	2	..	150
	C.E. 6	Field work—2 weeks spring				
English	Eng. 54	1	..	1	..	166
Entomology	Ent. 62	6 hrs. lec.-lab.				168
Entomology	Ent. 63	6 hrs. lec.-lab.				168
Geology	Geol. 51	3	3	3	3	171
Mathematics	Math, 7, 61 or 62	3	..	3	..	181
Physics	Phys. 3, 6, 8 or 12	3	2	3	2	205
Political Economy	Pol. Ec. 72	2	..	2	..	211
Political Economy	Pol. Ec. 64	3	..	3	..	210
Veterinary Science	Vet. Sci. 51	1	..	1	..	215

COMBINED COURSE IN ARTS AND AGRICULTURE

- First Year:**
1. English 1.
 2. History 1.
 3. Mathematics 1.
 4. Physics 1.
 5. 6. Latin, Greek, French, German (two of these, one of which must be a modern language).
 7. Physical Education 1.

- Second Year:**
1. One course from Division A.
 2. One course from Division B.
 3. 4. Two courses from Division C. (Bot. 1 and Chem. 1.)
 5. An option. (Students intending to select Mathematics or Physics in the Fourth Year should take Math. 22.)
 6. Physical Education 2.

DEGREE OF B.H.Ec.

- Third Year:** 1. 2. Two courses from Division A.
3. One course from Division B.
4. One course from Division C (Geology 51).
or
1. One course from Division A.
2. 3. Two courses from Division B.
4. One course from Division C (Geology 51).

- Fourth Year:** 1 and 2. Two courses from Divisions A and B.
3. One course from Division C (Bot. 52, Chem. 52, Physics 8, or Mathematics).
4. History of Agriculture 1.
5. Animal Husbandry 1 and 2.
6. Field Crops 1.

The degree of B.A. may be granted on successful completion of the four years outlined above.

Fifth Year: As for the Third Year in Agriculture.

Sixth Year: As for the Fourth Year in Agriculture.

Note: Re Fifth and Sixth years. In case the student has taken any of these courses in a preceding year he may substitute an equivalent approved course.

THE DEGREE OF B.H.Ec.

For those entering from the Provincial Schools of Agriculture.

For entrance requirements, see page 41.

Junior Courses.

- First Year:** 1. English 1.
2. History 1.
3. Mathematics 1.
4. Chemistry 1.
5. Physics 1.
6. Household Economics 31.
7. Physical Education 1.

- Second Year:** 1. One course from Division A or B.
2. Political Economy 1.
3. Chemistry 52.
4. Zoology 1.
5. Bacteriology 2 (1st term).
6. Household Economics 32, 33.
7. Physical Education 2.

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Senior Courses.

- Third Year:**
1. One course from Division A or B.
 2. Biochemistry 61.
 3. Chemistry 59.
 4. Hygiene and Sanitation 51.
 5. Household Economics 56, 57, 58, 59.

SCHOOL OF PHARMACY

The University offers two courses in Pharmacy, one covering the requirements for registration as Licentiate of the Alberta Pharmaceutical Association, the other leading to the degree of B.Sc. The former covers two years and the latter four years of academic work.

The Licentiate course as outlined below is a minimum prerequisite to acquiring membership in the Alberta Pharmaceutical Association. The first year of this course may be taken by matriculants at any time, but application for registration in the second year will not be accepted until the apprenticeship term of three years, prescribed by the Association, has been completed by the candidate.

In lieu of the required apprenticeship service, candidates for registration as members of the Association who hold the B.Sc. degree in Pharmacy may offer two years' practical experience in the employ of a duly qualified pharmacist, provided that such service has been performed after their apprenticeship has been duly registered by the Registrar of the Alberta Pharmaceutical Association. At least twelve months of this apprenticeship must be completed before the candidate enters upon the third year of the B.Sc. course.

THE LICENTiate COURSE

FIRST YEAR

SUBJECTS	Course No.	Lect. Hrs.	Lab. Hrs.	Pge.
Accountancy	Accountancy 1	3	..	127
Botany	Botany 3	2	3	140
Chemistry	Chemistry 2	3	6	142
Latin	Latin 36	1**	..	151
Mathematics	Mathematics 32 ..	3*	..	182
Physics	Physics 11	3	2	205
Physical Education	Physical Educ. 1..	..	2	220

*First half session.

**Second half session.

HIGHER DEGREES

SECOND YEAR

SUBJECTS	Course No.	Lect. Hrs.	Lab. Hrs.	Pge.
Chemistry	Chem. 3	3	3*	142
Materia Medica	M.M. 1	4	..	180
Pharmacy	Pharm, 1, 2 & 4....	4	6	197
Physiology (Biochemistry)	Biochem. 2	1*	2*	139
Toxicology	Toxic. 1	1*	..	215
Physical Education	Phys. Ed. 2 .....	..	2	220

*Second half session.

II.—THE B.Sc. DEGREE IN PHARMACY

For the outline of the course leading to this degree, see the Faculty of Arts and Sciences, page 91.

HIGHER DEGREES

Candidates for higher degrees are under the supervision of the Committee on Graduate Studies.

The Degrees of M.A. and M.Sc.

1. A candidate for the Degree of Master of Arts or Master of Science must possess a Bachelor's degree from this University or be admitted **ad eundem gradum**, and before presenting himself for the higher degree must have held the Bachelor's degree for at least one academic year.

2. The Master's degree may be attained by following either of two methods: (a) the pursuit of a prescribed course of study or (b) the carrying out of an investigation. Regulations governing these two methods follow:

(a) the pursuit of a prescribed course of study.

- (1) The candidate for the Master's degree must elect a major subject.
- (2) The candidate shall arrange his entire course leading to the degree with the members of the Department in which he elects his major subject and the candidate, having secured the Department's approval, shall then submit his programme to the Committee on Graduate Studies for ratification.

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- (3) If the candidate elects also a minor subject, or if in the opinion of the Department a minor subject should be added, representatives of the department of the minor subject shall act with the department of the major subject in arranging the candidate's course.
- (4) The programme so arranged and recommended by the department or departments concerned for approval to the Committee on Graduate Studies shall consist of a substantial body of work covering not less than one academic year. While the equivalent of four graduate courses in addition to a thesis (See Clause 5) will constitute the working basis for this recommendation, each case shall be judged on its merits.
- (5) In addition to completing satisfactorily the prescribed graduate courses, the candidate must prepare, under the direction of the members of the department of the major subject, a thesis, study, investigation, or piece of minor research. The granting of the degree shall be subject to the satisfactory completion of this requirement.
- (b) **the carrying out of an investigation.** A candidate who chooses to carry out a piece of original investigation shall submit on or before April 1st of the year in which the degree is to be taken, a formal report embodying the results of the investigation, or submit a dissertation indicative of acquaintance with the methods of research, which shall be printed or typewritten, in standard format, and which shall be deposited in the University Library. During the period of the student's candidacy, no use of the material or results of the investigation shall be made without the formal sanction of the Committee on Graduate Studies. In all cases the subject of the investigation must receive the written approval of the head of the department concerned before it is submitted to the Committee on Graduate Studies as required in Section 3, and the report when completed shall be accepted only on the recommendation in writing of the department concerned. Every candidate will be required, in

DEGREE OF B.EDUC.

addition, to pass an examination, written or oral, on the subject within which his investigation lies. Such examination shall be conducted under the supervision of the Committee on Graduate Studies.

3. A candidate who elects to proceed to the degree by method—

- (a) Must submit the course of study which he proposes to follow to the Committee on Graduate Studies for its approval on or before the first day of November of the year in which he undertakes his work for the degree; or
- (b) must submit the subject of the investigation he proposes to carry out, to the Committee on Graduate Studies, for its approval on or before the first day of November preceding the spring in which the degree is to be taken. Candidates are strongly recommended, however, to submit their applications to the Committee at the close of the preceding session. This is especially advisable for students wishing to work in scientific departments.

4. In respect of courses taken with a view to the fulfilment of the requirements for the Master's degree, the pass mark shall be 65%, and no supplemental examinations shall be permitted. The mark of 65% applies also to all essays required in connection with courses for the Master's degree.

The Degree of B.Educ.

The degree of Bachelor of Education is awarded as a graduate degree under the Faculty of Arts and Sciences. The course is designed to cover two full years of graduate work, one of which must be taken in residence in this University.

Admission

Graduates of an approved University or College, holding a Bachelor's degree, may be enrolled as candidates, subject to the approval of the Committee on Graduate Studies.

Graduates of an approved University or College, who have pursued graduate studies in any recognized institution in any

UNIVERSITY OF ALBERTA

of the subjects indicated in the appended programme of studies, may receive credit for such work, provided, however, that credits shall not be given for more than the equivalent of the work of one Academic Year, and that the condition requiring resident study in this University for at least one year after graduation is complied with.

In order to be recommended for the Degree of Bachelor of Education the candidate must, in accordance with the programme set out below, (1) complete the programme of studies; (2) submit a thesis.

- First Year:**
1. Philosophy 108.
History of Philosophical and Scientific Thought, Advanced Course.
 2. Psychology 51.
General and Experimental Psychology.
 3. Psychology 52.
Social Psychology and Social Anthropology.
 4. Psychology 55.
Educational Psychology.

- Second Year:**
1. Psychology 104.
General and Experimental Psychology, Advanced Course.
 2. Psychology 105.
Educational Psychology, Advanced Course.
 3. Education 54.
History and Philosophy of Education, Advanced Course.
 4. Education 53.
Modern Educational Systems and Problems.
 5. An option to be selected in consultation with the head of the Department of Philosophy.

Thesis

(a) The subject of the thesis shall be arranged for not later than the date on which the student enrolls as a second year graduate student. Students should consult with the Head of the Department of Philosophy and with the Professor under whom they will do their special research work.

DEGREE OF D.Sc.

(b) The subject of the thesis shall be submitted to the Committee on Graduate Studies not later than November first of the Academic Year in which the student expects to graduate.

Remarks

(a) Students who have completed any four of the full session courses outlined in the programme of studies above may be recommended for the Degree of Master of Arts provided that the other conditions for the awarding of this Degree have been fulfilled.

(b) Students who have completed any of the courses in the above-mentioned programme of studies as parts of their undergraduate work, may, if their undergraduate standing in these subjects has been of the grade required for graduate work, be allowed to select cognate subjects, or be allotted research work in lieu of classes. Such research work would be in addition to that ordinarily to be undertaken in the preparation of the thesis.

(c) In respect of courses taken for the degree of B.Educ. the pass mark shall be 65%, and no supplemental examinations shall be permitted.

The Degree of B.D.

By an arrangement with the affiliated colleges, the degree of B.D. is offered by the University to graduates in the Faculty of Arts and Sciences who follow a course of study prescribed by the affiliated colleges and approved by the University Senate. For information regarding this course application may be made to the Registrar. The provisions of Section 4 under "The Degrees of M.A. and M.Sc." apply also to the degree of B.D.

The Degree of D.Sc.

The degree of Doctor of Science may be conferred by the University on persons who shall be deemed by the Senate, after report from the General Faculty Council, to have distinguished themselves by special research of learning in the domain of Science, subject to the following regulations:

A candidate for the degree of Doctor of Science must have received the degree of Master of Science or a degree equivalent.

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A candidate must be a Bachelor of at least seven years standing before the degree can be granted.

The application must be based wholly on original work of merit carried out individually by the candidate or in co-operation with others. He shall, in the latter case, make a written statement indicating precisely the share he has personally taken in the work.

Application must be made in writing to the Committee on Graduate Studies and should be accompanied by four reprints of all papers submitted by the candidate. This application must be submitted before November 1st of the academic year in which it is proposed to take the degree.

AD EUNDEM DEGREES

Applicants for **ad eundem degrees** should communicate with the Registrar. In each case the application should be accompanied by diplomas and a calendar of the institution which has conferred the degree.

Details of Courses by Departments

The University reserves the right to modify or withdraw for the Session any of the Courses here outlined.

The courses marked with an asterisk are offered during the Summer Session, 1927.

DEPARTMENT OF ACCOUNTANCY

1. Principles of Accounting. 3 hrs.

The form, nature and classification of accounts. An introductory course in accounting principles and their practical application to the businesses of single proprietors, partnerships and joint stock companies, operating accounts and balance sheets.

10. Accounting. Evening classes.

Theory and practice for Intermediate candidates, Institute of Chartered Accountants of Alberta.

51. Municipal Accounting. 3 hrs. sec. half.

For fourth year students in Civil Engineering.
(Not offered 1927-28.)

52. Accounting. 3 hrs.

A continuation of Course 1. The preparation of financial statements, cost accounts, partnership and corporation adjustments, reconstructions and amalgamations, consolidated statements, income tax.
(Not offered 1927-28.)

53. Accounting.

For fourth year students in Commerce.
(Not offered 1927-28.)

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55. Business Administration. 3 hrs. sec. half.

For senior students in Commerce.

60. Accounting. Evening Classes.

Advanced course for Final candidates, Institute of Chartered Accountants of Alberta.

DEPARTMENT OF AGRICULTURAL ENGINEERING

Junior Courses.

1. Agricultural Engineering. 1 hr. lect., 3 hrs. lab.

The planning of farm buildings and farmsteads. Each student will be allowed to choose the types of buildings he wishes to design, and also make the farmstead layout apply to his own requirements. A brief study of materials of construction and the strength of materials, concrete work; applications of heating, ventilation, lighting, water supply and sewage disposal problems to agriculture.

Text-book: *Farm Buildings*, Foster and Carter.

2. Agricultural Engineering. 3hrs. lect.-lab.

A practical study of all lines of tillage, seeding, fertilizing, harvesting and threshing machinery. Draft of plows and other implements. Belt lacing, rope work, pipe fitting, babbitting and soldering. In the laboratory an effort will be made to furnish students with all the different types of machines with which they must deal on the average Alberta farm. An opportunity will be given to study the machines with the aid of a laboratory manual. Each student will require a laboratory manual.

Text-book: *Equipment for the Farm and Farmstead*, Ramsower.

Senior Courses.

51. Agricultural Engineering.

This course is similar to A.E. 1, and may be elected (see page 117).

ANATOMY

53. Agricultural Engineering. 1 hr. lect., 3 hrs. lab.

A study of the sources and applications of mechanical power on the farm. The demand for labor-saving machinery has turned the attention of farmers to power equipment of various kinds. The object of the course is to enable the students to become familiar more especially with the fundamental principles of the internal combustion engine, namely, valve timing, carburetion, lubrication, ignition and sufficient practice in operation to enable them to locate and correct the most common troubles. The practical work will be along similar lines to those followed in the Farm Machinery course.

DEPARTMENT OF ANATOMY

4. Gross Anatomy of the Body-Wall and Thorax.

2 hrs. lect., 12 hrs. lab. first half.

This is the first course in Gross Anatomy and includes the osteology of the parts studied.

Text-books: *Text-book of Anatomy*, Cunningham, Gray (English edition); *Manual of Practical Anatomy*, Cunningham; *BNA Terminology*, Barker; *BNA Regional and Systematic*, Emmel; *Dictionary*, Gould, Stedman, or Dorland; *Atlas* (for reference only), Toldt, Sobotta and McMurrich, Spalteholtz.

5. Gross Anatomy of Abdomen and Pelvis.

2 hrs. lect., 9 hrs. lab. sec. half.

Text-books as for Anatomy 4.

2. Gross Anatomy of Extremities.

Continuing the same hours as in Course 5 when the latter has been finished.

10. Histology. 3 hrs. lect., 4 hrs. lab. first half.

The cell, the elementary tissues.

Text-books: *Histology*, Bailey, Jordan, Piersol, Lewis and Stohr.

12. Splanchnology. 3 hrs. lect., 7 hrs. lab. sec. half.

Continuing Anatomy 10 and preceding Anatomy 14.

The minute anatomy of the organs of the body.

Text-books as for Anatomy 10.

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14. Embryology.

Combining with Anatomy 12.

Mammalian embryology.

Text-book of Embryology, Prentiss & Arey; *Development of the Human Body*, McMurrich.

Senior Courses.

53. Gross Anatomy of Head and Neck.

1 hr. lect., 9 hrs. lab. first half.

1 hr. lect., 5 hrs. lab., sec. half.

Text-books as for Anatomy 4.

54. Applied Anatomy.

1 hr. lect., 3 hrs. lab.

A review of the work of the second year supplemented by the study of frozen sections, and having regard to medical and surgical application.

Text-books as for Anatomy 4, and *A Manual of Surgical Anatomy*, Whittaker, or Beesley & Johnston; *A Cross Section Anatomy*, Eycleshymer and Shoemaker; *Surface Markings*, Rawlings; *Elements of Surface Anatomy*, Thompson.

55. Surgical Anatomy.

2 hrs. lect.

Includes, with lectures upon surgical and topographical anatomy, demonstrations by means of dissections and moist specimens, and when applicable the exhibition of anatomical abnormalities in the living.

56. Surgical Anatomy.

1 hr. lect.

A continuation of lectures and demonstrations of Course 55.

60. Neurology.

2 hrs. lect., 4 hrs. lab. sec. half.

Gross and minute structures of the central nervous system and organs of the special senses.

Text-books as for Anatomy 4, and Ranson, *Anatomy of the Nervous System*; Villiger, *Brain and Spinal Cord*.

For Dental Students.

6. Odontology.

1 hr. lect., 4 hrs. lab.

Morphology of human teeth, occlusion and arrangement, deciduous teeth.

Text-book: *Dental Anatomy*, Black.

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8. Comparative Odontology.

Combining with Anatomy 6 in the second half.

Text-book: *Comparative Dental Anatomy*, Dewey-Thompson.

For reference: *Origin and Evolution of Human Dentition*, Gregory.

11. Histology. 3 hrs. lect., 4 hrs. lab. first half.

Similar to Anatomy 10.

Text-books as for Anatomy 10.

13. Splanchnology. 3 hrs. lect., 7 hrs. lab. sec. half.

A course similar to Anatomy 12, but giving more attention to oral structures and their development, and less attention to the reproductive system.

Text-books as for Anatomy 10.

15. Combining with Anatomy 13.

A course similar to Anatomy 14, and using the same texts.

20. Gross Anatomy of Thorax.

2 hrs. lect., 2 hrs. lab. first half.

The gross anatomy includes osteology.

Text-books: *Text-book of Anatomy*, Cunningham, Gray (English edition), Morris or Piersol; *Practical Anatomy*, Walmsley, Pt. 2, or Cunningham; *BNA Terminology*, Barker; *Medical Dictionary*, Stedman, Dorland or Gould.

22. Gross Anatomy of Abdomen and Pelvis.

2 hrs. lect., 3 hrs. lab. sec. half.

Text-books as for Anatomy 20, and *Manual of Practical Anatomy*, Cunningham, Vol. 2.

23. Gross Anatomy of Head and Neck.

1 hr. lect., 4 hrs. lab.

Text-books as for Anatomy 20, and Cunningham, Vol. 3.

For Students of Nursing.

9. Minute Anatomy.

3 hrs.

Lectures and demonstrations on the tissues and organs, and on the development of the human embryo.

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19. Gross Anatomy.

Lectures and demonstrations on systematic anatomy.

31. Gross Anatomy.

3 hrs. half session.

For students in the diploma course.

DEPARTMENT OF ANIMAL HUSBANDRY

Junior Courses.

1. Types and Market Classes of Beef Cattle, Dairy Cattle, Horses, Sheep and Swine. 2 hrs. lect., 2 hrs. lab.

A consideration of the various types and market classes with special reference to present day market requirements. A study of the live animal and in the case of beef cattle, sheep and swine, a study of the carcass with a view to demonstrating the relationship existing between form and function.

Text-books: *Types and Market Classes of Livestock*, Vaughan; *Judging Farm Animals*, Plumb.

2. Breed Studies of Sheep, Swine, Beef Cattle, Dairy Cattle and Horses. 2 hrs. lect., 2 hrs. lab. first half.

A study of the origin, characteristics, and adaptability of the breeds. Judging type and representatives of different breeds according to their official standards.

Text-book: *Types and Breeds of Farm Animals*, Plumb.

3. Feeding and Management of Livestock.

2 hrs. lect., 2 hrs. lab. sec. half.

A practical course in the feeding and general management of cattle, horses, sheep and swine.

Text-book: *Feeds and Feeding*, Henry and Morrison.

Senior Courses.

61. Judging Breeding and Market Classes of Horses, Cattle, Sheep and Swine. 2 hrs. lab.

Laboratory course in judging, classifying, grading and valuing various types and classes of livestock.

Text-book: *Types and Breeds of Farm Animals*, Plumb.

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62. Feeding and Management of Livestock.

2 hrs. lect., 2 hrs. lab. sec. half.

A practical course in the feeding and general management of cattle, horses, sheep and swine.

Text-book: *Feeds and Feeding*, Henry and Morrison.

63. Markets.

1 hr. lect., first half.

A consideration of the organization for the marketing of livestock. A study of world's markets as they affect the markets for, and marketing of, Canadian livestock and livestock products.

Text-book: *Livestock Market and How it Functions*, Davenport.

64. Livestock Management.

2 hrs. lab., first half.

Laboratory practice in the housing, fitting for show and sale, and general care and handling of livestock.

65. Animal Breeding.

3 hrs. lect., first half.

Application of the principles of genetics to the improvement of farm animals. A study of reproduction, selection and the approved methods of practice.

Text-books: *Genetics in Relation to Agriculture*, Babcock and Clausen; or *Principles of Breeding*, Davenport.

66. Herd Book Studies and Breed Development.

1 hr. lect., 2 hrs. lab. sec. half.

A review of the work of the outstanding improvers of the various breeds of livestock, together with a consideration of the leading sires and blood lines with which these names are identified. A study of the requirements for registration and transfer in the various breeds, as well as for official records in dairy cattle. Practical work in extending pedigrees with the use of herd, flock and stud books.

67. Advanced Judging.

6 hrs. lab., first half.

Advanced work in judging horses, cattle, sheep and swine.

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68. Animal Nutrition. 3 hrs. lect., sec. half.

A study of the principles of nutrition, feeding standards, balanced rations, together with a consideration of the various feeding stuffs, with a practical application of their uses in feeding horses, cattle, sheep and swine.

69. Livestock Problems and Investigations. 4 hrs. lab., sec. half.

This course presents an opportunity for the student to prepare a thesis on some problem in Animal Husbandry, in which he is particularly interested. The subject to be chosen and approved of by the head of the Department not later than Nov. 1st, in the senior year. To be worked out in consultation with an instructor.

70. Seminar. 1 hr., sec. half.

Review and class discussion of special problems pertaining to various phases of Animal Husbandry not dealt with in the other courses offered.

Graduate Courses.

Advanced work leading to the Master's degree is offered to students whose previous training and academic standing is sufficiently high to justify further studies in Animal Husbandry. These courses will include special work both in lectures and research in the Department of Animal Husbandry, together with related courses in other departments of the University.

101. Advanced Animal Production and Nutrition.

A review of the basic principles of animal nutrition together with a consideration of the fundamental experimental work in Animal Husbandry conducted at leading experiment stations in Canada and the United States.

111. Experimental Methods.

A study of methods of experimentation and research in Animal Husbandry and consideration of the main problems in this field worthy of experimentation. Laboratory work in planning and executing experiments, in the keeping of records and interpretation of experimental results.

ARCHITECTURE

DEPARTMENT OF ARCHITECTURE

Courses 2 to 61 will not be offered during Session 1927-28.

Junior Courses.

2. Architectural Drawing. 3 hrs. lab.

Applied to historical examples.

Text-book: Pierre Esquié, *Cinq Ordres d'Architecture*.

3. Architectural Design. 6 hrs. first half, 9 hrs. sec. half.

The application of traditional forms to simple problems; subjects involving the use of the Classical Orders and of typical methods of construction.

4. History of Architecture. 2 hrs.

Ancient architecture. General review of Egyptian and Assyrian architecture and detailed study of Greek, Roman and Byzantine architecture.

Text-book: Anderson & Spiers, *Greek and Roman Architecture*.

5. Building Construction. 6 hrs. lab.

Methods of employing, assembling and framing materials in accordance with their various characteristics and the purposes for which each is suited. The principal elements of modern building work, such as walls, floors, roofs, doors, windows, etc., treated from the point of view of practical and customary construction. Standard methods of construction.

Text-book: Mitchell's *Building Construction, Junior Course*.

6. Decorative Arts. 4 hrs. lab.

Study of decorative principles as applied to the various materials employed in building.

Senior Courses.

51. Architectural Drawing. 3 hrs. lab.

Rendering in line and wash; development in light and shade; perspective drawing.

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- 52. Architectural Design.** 1 hr. lect., 9 hrs. lab.
Problems in Planning and in the composition of elevations.
- 53. Architectural Design.** 1 hr. lect., 15 hrs. lab.
Planning and groupings of buildings and surroundings.
- 54. History of Architecture.** 2 hrs.
Mediaeval architecture. Ramonesque and Gothic architecture throughout Europe. The Perpendicular and Tudor styles in England. Study of the principles of stone construction in arches and vaults.
Text-book: G. H. West, *Gothic Architecture in England and France*.
- 55. History of Architecture.** 2 hrs.
Renaissance and modern. The effects of the Renaissance movement as illustrated by architecture. The various characters exhibited by Renaissance architecture throughout Europe at various periods. The relation of modern architecture to past styles.
Text-books: W. L. Anderson, *Renaissance Architecture in Italy*; W. H. Ward, *Renaissance Architecture in France*; R. Blomfield, *English Renaissance Architecture*.
- 56. Decorative Arts.** 3 hrs. lab.
Decoration as employed in minor materials used in architecture, metal, plaster, terra cotta, etc.
- 57. Decorative Arts.** 1 hr. lect., 3 hrs. lab.
An advanced course in decorative design.
- 58. Specifications.** 1 hr. first half.
The preparation of detailed description of architectural works with a view to entering upon and carrying out contracts.
- 60. Ventilation and Heating.** 1 hr. first half.
The scientific bases on which the circulation and warming of air in buildings must be provided for. The principal means taken to meet these requirements.
Text-book: R. G. Carpenter, *Heating and Ventilating Buildings*.

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61. Building Construction.

6 hrs. lab.

Advanced stage of Building Construction (Architecture 5), including the more essentially modern methods of construction; re-inforced concrete, etc.

Text-book: Mitchell's *Building Construction, Advanced Course*.

62. Architecture.

Optional course for students in 3rd and 4th years of Arts course.

The purpose of this course is to provide a basis for the intelligent appreciation of architectural design as illustrated in historical monuments and in present day experience.

Text-book: H. H. Statham, *A Short Critical History of Architecture*.

DEPARTMENT OF BACTERIOLOGY AND HYGIENE

Bacteriology

1. Elementary Bacteriology.

1 hr. lect., 3 hrs. lab. first half.

Demonstrations in elementary bacteriology. Practical laboratory exercises, i.e., making of media, staining, etc.
Text-book: Jordon, *General Bacteriology*.

2. Agricultural Bacteriology.

1 hr. lect., 3 hrs. lab. first half.

Demonstrations and lectures, elementary in character. Practical laboratory exercises in elementary bacteriology.

51. Pathogenic Bacteriology.

1 hr. lect., 2 hrs. lab.

The relation of bacteria and the higher parasites to disease. Cultivation of pathogenic micro-organisms; isolation and identification of bacteria pathogenic to man, etc.

Text-book: Jordan, *General Bacteriology*.

52. Agricultural Bacteriology.

1 hr. lect., 3 hrs. lab. sec. half.

Plant diseases; study of specific micro-organisms; soil bacteriology; dairy bacteriology.

Text-book: Marshall, *Microbiology*.

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53. Pathogenic Bacteriology.

1 hr. lect., 2 hrs. lab. sec. half.

For Dental students. Shorter but similar to 51.
Text-book: Jordan, *General Bacteriology*.

61. Elementary Bacteriology.

1 hr. lect., 3 hrs. lab. first half.

Demonstrations in elementary bacteriology. Practical laboratory exercises, i.e., making of media, staining, etc.
Text-book: Jordan, *General Bacteriology*.

31. Bacteriology (Nurses' Course).

1 hr. lect., 2 hrs. lab., period of 15 weeks.

This course deals primarily with elementary bacteriology with the object of finally leading the pupils to that knowledge of the subject adequate to the practice of their profession. The course includes the bacteriology of disease, water and milk, and will deal with immunity and resistance.

Hygiene

51. Elementary Hygiene.

1 hr. first half.

The principles of sanitary science.

52. Hygiene and Sanitation.

1 hr. sec. half.

Points to be observed in design and construction of buildings to secure the best conditions of health.

53. Hygiene.

1 hr. and 8 2-hr. periods.

This course is for medical students and aims to give through the medium of lectures, demonstrations and inspections, the knowledge of preventive medicine, sanitation and hygiene necessary to the practitioner.
Text-books: Parks & Kenwood, Roseneau, Park.

31. Hygiene and Sanitation.

15 periods 1-hr. each.

This course aims to give through the medium of lectures, demonstrations, etc., the knowledge of hygiene and sanitation necessary to the nurse in the practice of her profession, and also to fit her for intelligent co-operation with public health authorities. The subject

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matter of the course will include such topics as communicable diseases, air, ventilation, water and water supplies, sewage and garbage disposal, and the hygiene of schools, etc., and will deal with housing, industrial hygiene, vital statistics, public health departments and health legislation.

32. Personal Hygiene. 10 periods 1-hr. each.

This course deals with exercise, clothing, nutrition, the skin, respiration, special senses, nervous system, reproductive system, and the relation of personal hygiene to community health. This course is for nurses.

DEPARTMENT OF BIOCHEMISTRY

Junior Course.

1. 3 hrs. lect., 3 hrs. lab.

Physical and chemical principles forming basis for general physiology; chemistry of food and proximate physiological compounds; enzyme action; digestion; metabolism; diet; nutrition; calorimetry; chemistry of physiological fluids, blood, urine, sweat, and milk.

2. 1 hr. lect., 2 hrs. lab. (Six weeks) (2nd yr. Pharm. Lic.)

A short course in biochemical methods.

Senior Courses.

51. Pathological Chemistry. 3 hrs. lab. (4th yr. med.)

Routine examination of urine, both normal and pathological. Quantitative methods in blood and urine chemistry. Analysis of stomach contents.

52. Pathological Chemistry. 1 hr. lect. (5th yr. med.)

A lecture course on applied biochemistry in its relation to clinical medicine.

61. Biochemistry 3 hrs. lect., 3 hrs. lab.

Same subject matter as Biochemistry 1. A senior subject open to students in Arts, Household Economics, and the degree course in Pharmacy.

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DEPARTMENT OF BOTANY

1. **General Elementary Botany.** 3 hrs. lect., 3 hrs. lab.

Morphology, physiology of the cell; elements of vegetable morphology, anatomy and physiology, Mendelism, genetics.

Prerequisite: Physics 1.

2. **General Elementary Botany (Medicine and Dentistry)**
3 hrs. lect., 2 hrs. lab.

3. **General Elementary Botany (Pharmacy).**
2 hrs. lect., 3 hrs. lab.

Elements of vegetable morphology, anatomy and physiology, classification of flowering plants.

4. **Agricultural Botany (3rd year Agriculture).**
1 hr. lect., 2 hrs. lab. sec. half.

Classification, morphology and physiology of fungi; diseases of plants.

Prerequisite: Botany 1.

Senior Courses.

52. 3 hrs. lect., 3 hrs. lab.

Plant Physiology with special reference to the physiology of the cell, assimilation and conduction. Ecological consideration of the representative plant formations and associations of the North temperate belt.

Prerequisites: Botany 1 and 53 or 54, Chemistry 52, Geology 52.

53. 3 hrs. lect., 3 hrs. lab.

Classification, morphology and anatomy of the Algae, Fungi, Bryophyta and Pteridophyta. General methods of plant histology. Evolution of the lower groups of plants.

54. 3 hrs. lect., 3 hrs. lab. and Field Work.

Classification, morphology and anatomy of the Spermatophyta. General principles of heredity. Origin and development of plant associations with special references to some district in Alberta.

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Honours Courses.

101. Palaeobotany.

3 hrs. lect., 6 hrs. lab.

Evolution of modern groups of plants as illustrated by the structure of fossil types from various geological horizons, plant remains in peat, lignite and coal. Prerequisites: Botany 1, Botany 53 or 54, Geology 51 and 52.

102. Comparative Anatomy and Ecology.

3 hrs. lect., 6 hrs. lab.

Evolution of chief tissues and organs of plants treated from a comparative point of view.

Prerequisites: Botany 1, Botany 52 and 53 or 54, Chemistry 52, Biochemistry.

103. Comparative Distribution of Vegetation and Ecology.

3 hrs. lect., 6 hrs. lab.

Distribution of vegetation in time and space considered from a dynamical point of view. Autecology and synecology.

Prerequisites: Botany 1, 52, 53, 54; Geology 52, Biochemistry.

Graduate Courses.

Graduate students who have had the necessary training and wish to carry on research in some field of Botany should consult the head of the department.

DEPARTMENT OF CHEMISTRY

*1. General Chemistry.

3 hrs. lect., 3 hrs. lab.

Lectures: Common non-metals and some of the metals and their compounds; fundamental laws and theories. Laboratory: The setting up of apparatus; titrations, and standardization of normal solutions. Preparation and separation of a few substances as an introduction to quantitative analysis, and to illustrate some of the laws of Chemistry; an introduction to qualitative analysis.

Text-books: Smith, *Chemistry for Colleges* (The Century Company), or McPherson and Henderson, *A Course in General Chemistry* (Ginn); Kendrick and DeLury (Macmillan); W. A. Noyes, *Qualitative Analysis* (Henry Holt).

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2. General Chemistry. 3 hrs. lect., 6 hrs. lab.

Lectures the same as Chemistry 1.

Laboratory; The quantitative determination of nitrogen, sugar, and a number of acids and bases, together with the laboratory work of Chemistry 1. For students in Medicine, Pharmacy and Dentistry.

Text-books as in Chemistry 1.

3. Organic Chemistry.

3 hrs. lect. throughout the year; 3 hrs. lab. sec. half.

Lectures: An introduction to both paraffin and the benzene series.

Laboratory: The preparation of some organic substances. For students in Medicine, Pharmacy and Dentistry.

Text-book: Remsen and Orndorff, *Organic Chemistry* (Heath and Company).

4. Organic Chemistry.

3 hrs. lect.

For students of Agriculture. The lecture course of Chemistry 52.

5. Quantitative Chemical Analysis.

1 hr. lect., 3 hrs. lab. first half.

A course in Volumetric and Gravimetric analysis, for students in Agriculture, preparatory to chemical soil analysis.

Text-book: Lincoln and Walton, *Elementary Quantitative Analysis* (Macmillan).

31. Elementary Chemistry. 1 hr. lect., 2 hrs. lab. first half.

For Nurses.

Lectures: Some of the most common elements and a few of their compounds, including antiseptics, soaps, foods, etc., and some simple laws and theories.

Laboratory: Purification of chemical substances, separation of mixtures, normal solutions, and a few simple volumetric and gravimetric determinations.

Senior Courses.

51. Organic Chemistry.

3 hrs. lect., 3 hrs. lab.

Lectures: Continuation of Chemistry 1 with special emphasis on the metals.

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Laboratory: Qualitative analysis of inorganic bases and acids.

Text-books: Mellor, *Modern Inorganic Chemistry* (Longmans); W. A. Noyes, *Qualitative Analysis*.

***52. Organic Chemistry.** 3 hrs. lect., 3 hrs. lab.

Lectures: A brief general outline of both the Paraffin and the Benzene series, with a somewhat fuller treatment of some of the groups of substances of general interest such as the fats and the carbohydrates.

Laboratory: The preparations of organic substances.

Text-books: Remsen and Orndorff, *Organic Chemistry* (Heath and Company); Norris, *Experimental Organic Chemistry* (McGraw-Hill Book Co.).

54. Physical Chemistry. 3 hrs. lect., 3 hrs. lab.

Lectures: Fundamental concepts; structure of matter; properties of gases, liquids and solids; thermochemistry; solutions; electrochemistry; equilibrium; phase rule; colloid chemistry; photochemistry.

Laboratory: Experiments on properties of gases, liquids and solids; thermochemical measurements; molecular weight determinations; Solubility and eutectic points; dissociation and association; conductivity; concentration cells.

Text-books: Getman, *Outlines of Theoretical Chemistry* (Wiley); Findlay, *Practical Physical Chemistry* (Longmans).

57. Agricultural Chemistry. 3 hrs. lect., 3 hrs. lab.

Lectures: Digestibility, assimilation, and function of nutrients; composition of fodders and expression of their nutritive value.

Laboratory: Analysis of fodders.

For students in Agriculture.

Text-book: Lincoln and Walton, *Elementary Quantitative Analysis* (Macmillan).

58. Analytical Chemistry. 3 hrs. lect., 3 hrs. lab.

Lectures: Continuation of Chemistry 1; principles and methods of quantitative chemical analysis; gravimetric, volumetric, colorimetric; standardization of apparatus; sampling.

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Laboratory: Work illustrating the lectures.

Text-books: Fales, *Inorganic Quantitative Analysis* (Century Co.), or Talbot, *Quantitative Chemical Analysis* (Macmillan).

Reference book: Treadwell and Hall, *Analytical Chemistry*, Vol. 2 (Wiley).

59. Chemistry of Foods.

6 hrs. lab.

For students in Household Economics.

A course for the analysis of staple food materials, such as flour, milk, fats and oils, butter, etc., to determine their value and detect adulteration.

60. Electrochemistry.

2 hrs. lect. sec. half.

For students in Electrical Engineering.

Lectures: Ionization; conductivity; electrode potentials; concentration cells; accumulators; electroanalysis; electroplating; electrometallurgy; industrial electrochemistry.

Reference book: *Handbook for Electrical Engineers*.

61. Metallurgy.

1 hr. lect., 2 hrs. lab.

For students in Third Year Dentistry.

Lectures: Methods of preparation and properties of metals and alloys used in Dentistry.

Laboratory: Preparation of metals, alloys, amalgams, and cements; examination of physical and chemical properties of metals; analysis of alloys.

Text-book: Hodgen, *Practical Dental Metallurgy* (C. V. Mosby Company).

62. Industrial Chemistry.

3 hrs.

Description of industrial processes in chemical and allied chemical industries, stoichiometrical calculations, visits to local plants, reports.

Prerequisite: Chemistry 51.

Honours Courses.

101. Organic Chemistry.

Selected topics with a study of the original literature and an introduction into research.

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102. Organic Chemistry. 3 hrs. lect., 6 hrs. lab.

Lectures: The benzene series; naphthenes; terpenes; heterocyclic and conjugated cyclic compounds; history of Chemistry; reading of assigned subjects.

Laboratory: Continuation of the laboratory work of Chemistry 52. Preparation of organic substances. Chemical analysis of organic substances.

Text-book: Holleman, *Organic Chemistry* (Chapman and Hall or Wiley).

103. Physical Chemistry. 3 hrs. lect., 6 hrs. lab.

Lectures covering the same topics as in 54, but with more advanced treatment, and with greater emphasis on mathematical relations.

Laboratory: Practical measurements to illustrate the lecture course.

Text-books: Eucken, *Fundamentals of Physical Chemistry*, translated by Gette and La Mer (McGraw-Hill).

Reference: Nernst, *Theoretical Chemistry* (Macmillan).

Prerequisites: Mathematics 55, and Chemistry 54.

104. Physical Chemistry. 3 hrs. lect., 6 hrs. lab.

Selected topics from Chemical Thermodynamics; electrochemistry; colloid chemistry; and photochemistry.

DEPARTMENT OF CIVIL AND MUNICIPAL ENGINEERING

Junior Courses.

1. Applied Mechanics. 3 hrs. lect. sec. half.

Composition and resolution of forces; bending moments; shears and reactions; funicular polygon; stresses in simple framed structures; centre of gravity; moments of inertia; application of funicular polygon to arches and hanging chains.

Prerequisite: Mathematics 21, 22.

Concurrent courses: Mathematics 25, 26.

2. Mapping. 3 hrs. lab. first half.

Topographical and conventional signs; contour maps and problems; plotting from notes; mine survey note; problems on areas by latitudes and departures, division into triangles and planimeter.

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3. Materials of Construction.

2 hrs. lect.

General characteristics, manufacture and use of woods, metals and their ores, cast iron and malleable cast iron, wrought iron, steels (corrosion of iron and steel), other metals and alloys, limes and plasters, cements, mortars, concrete, clay products, glass, building stones, masonry construction, oils and paints, asphalts, bitumens, etc., explosives.

Text-book: Johnson, *Materials of Construction* (Wiley).

5. Surveying.

1 hr. sec. half.

Construction, adjustments and use of instruments; surveying methods; topography; contour surveying; mine surveying; railway alignment problems; land system of the Dominion; description for deeds; photographic surveying.

Text-book: Breed and Hosmer, *Surveying*, Vols. I and II (Wiley).

Prerequisite: Mathematics 2.

This course is resumed and given daily during Survey School C.E. 6.

6. Survey School.

4 weeks at end of sec. half.

Field work, including chaining, rodding, levelling, transit work, plotting of field notes.

Corequisite: C.E. 5.

The fieldwork of this course is available to students in Agriculture.

7. Survey School.

4 weeks at end of sec. half.

Field work, including adjustments of instruments; railway preliminary and location surveys; cross-sectioning; staking out buildings; plane table survey; determinations of azimuth, longitude, latitude and time by solar and stellar observations; base line measurements; angular measurements. Daily lectures on practical astronomy and geodesy including problems and methods of observing for latitude, time, longitude, and azimuth sufficient to meet the needs of the practical surveyor.

Text-book: Hosmer, *Astronomy* (Wiley).

Prerequisite: Math. 21, C.E. 6.

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10. Science and Engineering. 1 hr. lect., first half.

This course is a series of lectures on scientific and engineering topics. Its purpose is to point out to the student the important relations between science and modern industry, to impart an insight into some of the problems in the various branches of engineering, and to show the relation of other branches of learning to those of the engineering profession.

Text-book: John Hays Hammond, *The Engineer*.

Senior Courses.

52. Foundations. 1 hr. lect.

Classification, examination and bearing power of soils; design of foundations; pile foundations; spread footings; coffer-dams; pneumatic caissons.

Text-book: Jacoby and Davis, *Foundations for Bridges and Buildings* (McGraw-Hill).

Prerequisite: C.E. 67.

53. Theory of Structures. 3 hrs. lect.

Influence lines and maximum stresses under static and moving loads for beams; girders and trusses; lateral and portal bracing; viaduct towers and spaced frames; deflection and camber; method of least work; masonry structures; arches; suspension bridges.

Text-book; Spofford, *Theory of Structures* (McGraw-Hill).

55. Hydraulics. 2 hrs. lect., first half.

2 hrs. lect., 3 hrs. lab. sec. half.

Fundamental principles considered and applied to problems on discharge from orifices, notches, weirs, pipes and open channels; theory of impact of jets, turbines, pumps, hydraulic transmission of power, accumulators and lifts; discussion of hydrology; stream measurements and water-power development. Laboratory work illustrates principles and includes measurements of discharge from orifices and notches, tests of hydraulic ram, Pelton wheel, reaction turbine and centrifugal pump.

Text-book: Gibson, *Hydraulics and Its Application* (Constable).

Prerequisite: Math. 25 and 26.

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57. Applied Thermodynamics. 2 hrs. lect., first half.
2 hrs. lect., 3 hrs. lab. sec. half.

Fuel and combustion; steam boilers, engines, turbines and auxiliary machinery; the gas producer; internal combustion engine; compressed air; refrigeration.

Text-book: Ripper, *Steam Engine Theory and Practice* (Longmans & Co.).

Reference books: Clerk, *The Gas, Petrol and Oil Engine* (Longmans & Co.); Robson, *Power Gas Producers* (Arnold).

Prerequisite: Math. 25, 26.

Corequisite: C.E. 67 or 70.

59. Water Supply and Sewage Disposal. 2 hrs. lect., 3 hrs. lab.

Water Supply: Quantity, quality, and pressure requirements; rainfall and evaporation; collection and storage works; purification works; distribution system and details; designs and estimates.

Sewage Disposal: Separate and combined systems; collection methods; pipe layout and details; purification and dilution treatments; laws and regulations affecting sewage disposal.

Text-books: Turneaure and Russell, *Public Water Supplies* (Wiley); Folwell, *Sewerage* (Wiley).

Reference: Metcalfe and Eddy, *American Sewerage Practice*, Vols. I, II, III (McGraw-Hill).

Prerequisite: C.E. 55.

62. Structural Design. 2 hrs. lect., 3 hrs. lab.

Quantity surveying and estimates; practical design of members in simple tension, columns and beams; rivets and rivetting; timber framing; loads on structures, roof trusses; building frame layouts; latticed columns, tension and compression members under direct stress and bending; eccentric connections. The design and detailing of a steel roof truss will be carried out in draughting-room.

Text-book: Thayer, *Structural Designs*, Vol I (Van Nostrand).

Prerequisite: C.E. 67 or 71.

63. Structural Design. 2 hrs. lect., 3 hrs. lab.

History of bridge engineering; plate girders, loads, floor systems, types, design; reinforced concrete build-

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ings and bridges; slow burning mill construction. Designs of a plate girder bridge, a reinforced concrete building and a retaining wall will be done in the draughting room.

Prerequisite: C.E. 62, 67. Corequisite: C.E. 53.

66. Testing Laboratory. 3 hrs. lab.

Standard tests of materials of construction including reinforced concrete beams and columns.

Prerequisite: C.E. 67.

67. Applied Mechanics. 3 hrs. lect., 3 hrs. lab. first half 2 hrs. lect. sec. half.

Lectures and exercises on the strength of materials and applied dynamics. Theory is illustrated by a large number of practical problems including applications to columns, beams and girders, continuous girders, shafting, thick hollow spheres and cylinders, rotating discs, reinforced concrete, hooks, etc.

Text-book: Maurer and Withey, *Strength of Materials*.

Prerequisite: Math. 25, 26, C.E. 1.

70. Applied Mechanics. 3 hrs. lect., 3 hrs. lab. first half.

Shorter but similar to C.E. 67. Problems and applications are adapted to meet the needs of the mining engineer and include design of ropes, head-frames, etc.

Text-book: Maurer and Withey, *Strength of Materials*.

Prerequisite: Math, 25, 26, C.E. 1.

71. Applied Mechanics. 2 hrs. lect., 3 hrs. lab. first half. 2 hrs. lect. sec. half.

Lectures and exercises to include fundamental principles of statics and applications to problems arising in building construction such as columns, beams, girders, roofs, trusses, etc.

74. Land Transportation. 3 hrs. lect.

Financing of railway and highway projects; economics of location, construction, operation and maintenance; construction details; methods of location; care of city streets.

Text-books: Blanchard, *Elements of Highway Engineering* (Wiley); Webb, *Railroad Construction* (Wiley).

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75. Elements of Irrigation.

2 hrs. lect.

A course for students in Agriculture, who should also take C.E. 6 Field Work.

DEPARTMENT OF CLASSICS

Students who enter the University deficient in Latin and are in their first year taking Latin A, may be permitted, if they pass with a mark of 75 per cent., to read the authors of the first year course during the summer and write these off at the time of the supplemental examinations in September. No credit will be granted until the second year work in Latin has been successfully completed.

Similarly, students taking a first year course in a language, who obtain 85 per cent., may with the consent of the Department concerned, read the authors of the second year course during the summer and write these off at the time of the supplemental examinations in September at which time second-class standing must be obtained. No credit will be granted for the course unless and until a senior course in the language concerned is successfully completed in the following year.

Students intending to apply for the privilege referred to above should notify the Registrar's office not later than May 15th.

Latin

Junior Courses.

A. Matriculation Latin.

3 hrs.

A course designed to enable students with a deficiency in entering Latin to satisfy the matriculation requirement in that subject.

Inglis and Prettyman, *First Book in Latin* (Macmillan); *Tales of Great Generals* (Lowe: Oxford); Ovid, *Metamorphoses*, Selections (Hall: Macmillan).

By joint regulation of the Faculties the passing mark in this course is fixed at 65%.

*1. First Year Latin Authors.

2 hrs.

Livy, *Legends of Ancient Rome* (Wilkinson: Macmillan); Vergil, *Aeneid I* (Page: Macmillan's Elementary Classics); Sight Translation.

CLASSICS

***3. First Year Latin Prose Composition. 1 hr.**

A study of the major principles of Latin prose syntax; *The Latin Prose Composition of Baker and Inglis* (Macmillan).

2-4. Second Year Latin Authors and Prose Composition. 3 hrs.

A Latin Reader (Petrie: Oxford), Selections illustrating Roman history, literature, and antiquities; sight translation.

Exercises in continuous Latin prose composition.
Baker and Inglis, Pt. III (Macmillan).

36. Pharmaceutical Latin. 1 hr. sec. term.

A course in Latin essentials as required in the School of Pharmacy.

For reference students may procure: *Latin for Pharmacists* (Howe and Beard: Blakiston), and *Medical and Pharmaceutical Latin* (Bennett: Churchill).

Senior Courses.

51. Latin Literature of the Republic, First Course. 3 hrs

Cicero, *Select Letters* (Abbott: Ginn); Catullus, *Select Poems* (Merrill: Ginn). Sight Translation.

52. Latin Literature of the Empire, First Course. 3 hrs.

Tacitus, *Annals I-IV* (Furneaux: Oxford); Martial, *Select Epigrams* (Bridge and Lake, Vol. I: Oxford). Sight Translation.

53. Latin Literature of the Empire, Second Course. 3 hrs.

Seneca, *Epistulae Morales* (Summers: Macmillan); Martial, *Select Epigrams* (Bridge and Lake, Vol. II: Oxford). Sight Translation.

54. Latin Literature of the Republic, Second Course. 3 hrs.

Cicero, *De Officiis* (Holden: Cambridge); Lucretius, *De Rerum Natura I, III, V* (Merrill: American Book Co.). Sight Translation.

55. Latin Literature of the Empire, Third Course. 3 hrs.

Tacitus, *Agricola, Germania, Dialogus*; Horace, *Satires and Epistles*. Sight Translation.

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- 56. Latin Literature of the Empire, Fourth Course.** 3 hrs.
Tacitus, *Histories I and II*; Lucan, *Pharsalia* (selections). Sight Translation.
- 57. Latin Literature of the Republic, Third Course.** 3 hrs.
Plautus, *Aulularia*; Terence, *Heautontimoroumenos*; Cicero, *De Senectute*, *De Amicitia*; Sight Translation.
Course for third and fourth year students in 1927-28.

Honours and Graduate Courses.

- 101. Cicero.** 2 hrs.
Second Philippic and *Selected Letters* (Abbott: Ginn).
Honours course for 1927-28.
- 102. Latin Comedy.** 2 hrs.
- 103. Lucretius.** 2 hrs.
- 104. Latin Literary Criticism.** 2 hrs.
A study of the outlook and objects of Latin literary criticism as illustrated by Horace in the literary epistles and by Quintilian in the tenth book of the *Institutio Oratoria*.
- 105. Vergil, Aeneid.**
The critical and exegetical study of Bk. VI; the reading of Books I-VI in the original, and VII-XII in translation. (Particular attention will be paid to the literary history of the Epic and its technique.)
- 106. Sallust.** 2 hrs.
The *Catiline* and the *Jugurtha*.
- 111. Advanced Latin Prose Composition.** 1 hr.
Weekly exercises in Latin prose composition of the various styles.
- 113. Advanced Latin Sight Translation.** 1 hr.
Weekly exercises in translating Latin prose and verse at sight.

CLASSICS

Greek.

Attention is directed to the fact that beginning with the academic year 1920-21, Greek was made wholly a University subject. The language can therefore be begun in college and this beginning course is credited towards a degree.

Junior Courses.

1. Beginning Greek. 3 hrs.

The fundamentals of Greek syntax; elementary Greek composition and reading.

An Elementary Greek Grammar (Bryant and Lake: Oxford).

Colson's First Greek Reader (Macmillan).

Brief Greek Syntax (Bevier: American Book Co.).

In accordance with the joint regulation of the Faculties in regard to beginners' courses in languages, a passing mark of 65% is required in Greek 1.

2-4. Second Year Greek Authors and Prose Composition.

3 hrs.

Herodotus, *Selections* (Farnell: Macmillan); Euripides, *Alcestitis* (Bayfield: Macmillan). Sight Translation.

Review of Greek forms. More difficult sentences for translation into Greek.

Elementary Greek Grammar (Thompson: Murray).

Senior Courses.

51. 3 hrs.

Thucydides *VI* and *VII* (Perry: American Book Co.); Sophocles, *Oedipus Tyrannus* (Jebb, Abridged; Cambridge); Aristophanes, *Birds* (Merry: Oxford).

52. 3 hrs.

Lysias, *Orationes XVI* (Shuckburgh: Macmillan); Aeschylus, *Prometheus Vincitus* (Harry: American Book Co.); Aristophanes, *Frogs* (Merry: Oxford).

Course for third and fourth year students in 1927-28.

53. 3 hrs.

Thucydides *II* (Mills and Jones: Oxford); Sophocles, *Antigone* (Jebb: Cambridge, abridged); Plato, *Phaedo* (Burnet: Oxford).

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Honours and Graduate Courses.

101.

Homer, *Odyssey VII-XII* (Merry: Oxford). A study of the epic technique and the language of Homer. An examination of the life and thought of the Homeric world.

102.

Plato, *Republic I-IV* (Adam, Vol. I: Cambridge). An introduction to the Greek theory of state.

103.

Demosthenes, *Selected Public Orations*.
Honours course for 1927-28.

111. Advanced Greek Prose Composition.

Weekly exercises in Greek prose composition of the various styles.

113. Advanced Greek Sight Translation.

Weekly exercises in translating Greek prose and verse at sight.

Classics in English

51. Greek Life and Letters from Homer to Lucian. 3 hrs.

A study of life and thought in the Greek world for the period indicated. This will be based (a) on the literary documents, (b) on the Department's collection of slides illustrating Greek art, architecture and natural environment. While some knowledge of the original language is desirable, it is not a prerequisite, as the literary documents are dealt with in translation.

Required in the second year of students looking forward to Honours in English or in Classics; open to all students of the third and fourth years in Arts and Sciences as an option in Group A (languages and literature).

Livingstone, *The Greek Genius* (Oxford); Casson, *Ancient Greece* (Oxford).

See Department of General Literature, page 171.

COMMERCIAL LAW

Ancient History

51. The Rise and Decline of the Greek City State. 3 hrs.

A preliminary study of the political geography, physical geography, economics and industrial history of ancient Greece.

An examination of the sociology and politics of fifth century Athens as illustrating the city-state which developed in this environment. A study of the diffusion of Greek culture through the Empire of Alexander. This course constitutes a desirable preliminary for Classics in English 51.

Zimmern, *Greek Commonwealth* (Oxford: 3rd or 4th edition); Breasted, *Ancient Times*.

This course also is recommended as a preparation for the teaching of the prescribed course of the Department of Education for Grade IX.

(Not offered 1927-28.)

*52. The Roman Genius in the Mediterranean World. 3 hrs.

An examination of the development of the Roman Republic and of the forces which brought about its transformation into the Principate. A sketch of the history of the Principate and the Empire down to the collapse in the West.

Particular attention will be paid to the influence of the Roman power on the life and thought of the Mediterranean area and to the relation of the Roman Empire to the mediaeval and modern world.

COMMERCIAL LAW

1. Commercial Law. 3 hrs.

General principles of mercantile law, including contracts, partnerships and agency, real and personal property, company and municipal law, bills of exchange, law and practice of bankruptcy.

For students in third and fourth year Commerce.

Text-book: Anger, *Canadian Mercantile Law*; Selected Statutes and Cases.

(Not offered 1927-28.)

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DEPARTMENT OF DAIRYING

Junior Course.

1. General Dairying.

3 hrs. lect.-lab.

- (1) Some aspects of the development and economic importance of the dairy industry and its organization, with special reference to Alberta conditions.
- (2) The composition, physical properties, sanitary production, testing, separation, handling and marketing of milk and cream for direct consumption and for the purposes of manufacture; the recording of production of individual cows in the dairy herd and the utility of such records.
- (3) The manufacture of butter and cheese; the legal standards and other provisions which apply to the production and marketing of dairy products under farm conditions.

Laboratory practice will be given in the testing of dairy products by the Babcock and other tests, in the operation of centrifugal cream separators, and in the manufacture of butter and cheese on a home dairy basis.

Senior Courses.

53. Testing and Grading of Dairy Products.

3 hrs. lect.-lab. first half.

This course will deal with the commercial testing and grading of milk, cream, butter and cheese—for composition and quality.

54. Factory Dairying.

3 hrs. lect.-lab. sec. half.

An extension of Course 1, with special application to dairy factory operations.

DEPARTMENT OF DENTISTRY

Junior Courses.

1. Prosthetic Dentistry.

2 hrs. lect., 4 hrs. lab.

A study of the mouth; muscles of mastication; the temporomandibular articulation; the mucous membrane; the teeth; impression materials; impression taking;

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casts; artificial teeth; dentures; occlusion and articulation; waxing, festooning, investing, packing vulcanizing, finishing and polishing full and partial dentures; retention of dentures; vulcanite bases; physical properties of vulcanite; chemistry of vulcanization; repairing dentures.

Text-book: Prothero's *Prosthetic Dentistry*.

2. Operative Dentistry. 1 hr. lect., 4 hrs. lab.

Lectures and demonstrations on nomenclature, dental caries, use of instruments, filling materials and operative methods. Laboratory course on cavity preparation, filling procedure, instrument making, general operative work.

Reference: *Operative Dentistry*, Black, Johnson and Clyde Davis.

3. (a) Prosthetic Dentistry. 1 hr. lect., 2 hrs. lab.

An extension of Dent. 1. Also advanced methods of impression taking; occlusion and contour models; taking the bite; face bow; condyle paths; incisor paths; articulators; occlusion; articulation; rotation centres; principles governing retention; denture balance; applied physics; selection and arrangement of teeth according to type; vulcanite, celluloid, aluminum and gold denture bases; partial dentures; clasps; indirect retention.

Text-book: Prothero's *Prosthetic Dentistry*.

(b) Crown and Bridge. 1 hr. lect., 2 hrs. lab.

History of crown and bridge work; crowns and bridges; preparation of teeth for reception of different varieties of crowns and bridges; pontex; facings, grinding, casting, swaging, occluding, soldering; causes of failure in crown and bridge work; fixed and removable bridges; various metals used; applied metallurgy.

Text-book: Prothero's *Prosthetic Dentistry*.

Senior Courses.

51. Prosthetic Dentistry. 1 hr. lect., 7 hrs. lab. & clinic.

An extension of Dent. 3 (a) with practical application to cases in clinic.

Text-book: Prothero's *Prosthetic Dentistry*.

Reference: Wilson's *Dental Prosthetics*.

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- 52. Operative Dentistry.** 1 hr. lect., 7 hrs. lab. & clinic.
Lectures on operative procedure; laboratory technique as a preparation for future work in the infirmary; clinical practice suitable to the knowledge and ability of the student.
Text-book: Black's *Operative Dentistry*.
- 53. Crown and Bridge.** 1 hr. lect., 3 hrs. lab. & clinic.
An extension of Dent. 3 (b) with practical application to cases in clinic.
Text-book: Prothero's *Prosthetic Dentistry*.
References: Evans' *Crown and Bridge*, and Goslee's *Principles and Practice of Crown and Bridge Work*.
- 54. Exodontia and Anaesthesia.** 1 hr. lect., 1 hr. clinic.
Lectures and demonstrations on the technique of tooth extraction and the administration of Nitrous Oxide Gas and Oxygen, and local anaesthetics.
- 55. Orthodontia.** 1 hr. lect., 2 hrs. lab.
Lectures on the causes, classification, and treatment of malocclusion; instruction in the laboratory on making and adjusting appliances on technic models.
Reference: *Orthodontia*, Angle, Dewey, Lischer.
- 56. Dental Radiology.** 1 hr. lect. sec. half.
A course devoted to the explanation of the principles of X-rays; lectures and demonstrations on the application of radiology to dentistry.
Reference: Raper's *Elementary and Dental Radiology*.
- 61. Prosthetic Dentistry.** 1 hr. lect., 6 hrs. lab. & clinic.
An extension of Dent. 51.
The same Text and Reference books.
- 62. Operative Dentistry.** 1 hr. lect., 11 hrs. clinic.
A course similar to Dent. 52, but conforming to the advanced work of the final year.
- 63. Crown and Bridge.**
1 hr. lect., 4 hrs. lab. & clinic, first half.
1 hr. lect., 7 hrs. lab. & clinic, sec. half.
An extension of Dent. 53.
The same Text and Reference Books.

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64. Exodontia and Oral Surgery. 1 hr. lect., 2 hrs. clinic.

Lectures and demonstrations on operations usually performed about the mouth by the dental surgeon. Students taking this course will be required to extract teeth and assist at other operations.

65. Orthodontia. 1 hr. lect., 3 hrs. clinic

Lectures on the principles of orthodontia, and clinics in the infirmary. Cases suited to the ability of the student will be treated by him under supervision.

66. Dental Radiology. 1 hr. lect. first half.

An extension of the course in Dent. 56, with special attention to radiographic technique, and the use of radiograms in the diagnosis of dental diseases.

67. Peridontia and Preventive Dentistry. 1 hr. lect.

Instruction in the treatment and prevention of diseases of the teeth and surrounding membranes.

68. Dental Medicine. 1 hr. lect.

Special lectures on medicine as applied to diseases of the mouth met with in a dental practice.

69. Ceramics. 1 hr. lect., 1 hr. lab. & clinic, first half.

Cavity preparation for porcelain inlays; porcelain jacket crowns; porcelain bridges; high and low fusing porcelain, mixing, blending of colour, fusing, etching, setting.

Text-book: Prothero's *Prosthetic Dentistry*.

Reference: Thompson's *Ceramics*.

Prosthetic Clinic.

Each student in both the 4th and 5th years is required to carry to completion for patients a number of practical cases representing the various classes of prosthetics.

70. Ethics and Economics. 1 hr. lect. sec. half.

Lectures on ethics include a discussion of the ideals of private and public life, man's attitude towards his fellow-man, the proper relations between the dentist and his confrère, and between him and his patient. Adver-

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tising and legitimate practice building also will be dealt with.

Reference: Noyes' *Ethics and Jurisprudence*.

Under Economics, instruction will be given in the fundamentals of office management, including purchasing outfit and supplies, personal appearance and conduct, financial affairs, bookkeeping, investments, etc.

Reference: Johnson's *Success in Dentistry*.

71. Jurisprudence. 1 hr. lect. sec. half.

The legal aspects of dentistry, including the responsibility of the dentist to his patients, the dentist's rights under the laws of each province, the different phases of malpractice, and such other legal knowledge as will be found helpful in the conduct of a practice.

DEPARTMENT OF DRAWING AND DESCRIPTIVE GEOMETRY

1. Architectural Drawing. 3 hrs.

Geometrical representation of architectural subjects, more especially the classical orders of architecture.

2. Elementary Mechanical Drawing. 6 hrs. first half.

Use of instruments, projection, simple machine details, timber framing, tinting, tracing, and blue printing. Freehand sketching of machine parts. Lettering and titles.

3. Freehand and Lettering. 6 hrs.

A course related to Architecture, comprising perspective views, drawing from casts of ornament and from natural forms; lettering.

4. Descriptive Geometry. 2 hrs. lect., 3 hrs. lab.

Geometrical drawing, orthographic and metric projection, problems on lines and planes, sections and developments, conic section and other curves, curved surfaces and tangent planes, shades and shadows.

5. Mechanical Drawing. 3 hrs. sec. half.

Preparation of working drawings from dimensioned sketches.

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6. Mechanism.

3 hrs. sec. half.

Problems on motion under mechanical constraint, kinematic chains, velocity diagrams, straight-line motion mechanisms, linkwork, cams, gearing.

DEPARTMENT OF ELECTRICAL ENGINEERING

History of Science.

For the present the Department of Electrical Engineering is giving the course in History of Science. The course is a brief introduction to the general History of Science touching on the greatest scientific discoveries and their interest and importance.

Text-books: *History of Science*, Libby; *Science and the Human Mind*, Whetham.

51. Direct Currents.

3 hrs. lect., 3 hrs. lab.

- (a) A review of the laws of electromagnetism, electric and magnetic circuits and the units used in electrical engineering. The theory and characteristics of direct current machinery and storage batteries. An introduction to the study of circuits containing inductance and capacity.

Text-book: Christie, *Electrical Engineering*.

Reference: Dawes, *Electrical Engineering*, Vol. I; Vinal, *Storage Batteries*.

- (b) Direct Current Laboratory.

The determination of the characteristics, regulation and efficiency of direct current machines; the use of measuring instruments, controlling and protective devices; the characteristics of storage batteries. The laboratory reports include a comparison of the results of experiment with those determined from theory and calculation.

Reference books: Ricker and Tucker, *Electrical Engineering Laboratory Experiments*; Karapetoff, *Experimental Electrical Engineering*, Vol. I.

53. Applied Electricity.

2 hrs. lect., 3 hrs. lab. first half.

2 hrs. lect. sec. half.

The laws of electromagnetism; continuous and alternating current flow in various circuits; characteristics of direct and alternating current machinery with a con-

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sideration of the class of work to which each machine is suited; the fundamental principles of electric traction, lighting and power distribution.

The laboratory course includes the determination of the characteristics and efficiency of various machines; the use of measuring instruments, controlling and protecting apparatus.

Text-book: *Principles and Practice of Electrical Engineering*, Gray.

Required of fourth year students in Civil and Mining Engineering.

54. Machine Design.

2 hrs. sec. half.

The principles of stresses and strength of materials as applied to particular parts of machines and machine fastenings, such as bolts, nuts, keys, cotters, and rivetted joints. Required of fourth year students in Electrical Engineering.

Text-book: Unwin, *Machine Design, Part I* (Longmans, Green).

55. Mechanics of Machines. 1 hr. lect., 1 hr. lab. sec. half.

The principles involved in the design of gears, gear trains, valves, valve gears, flywheels, governors. The theory of balancing.

Required of fourth year students in Electrical Engineering.

References: Durley, *Kinematics of Machines*, Wiley; Ripper, *Steam Engine Theory and Practice* (Longmans and Co).

76. Alternating Currents. 3 hrs. lect., 6 hrs. lab. first half.

3 hrs. lect., 3 hrs. lab. sec. half.

- (a) The theory of alternating currents. A detailed consideration and analysis of the theory and characteristics of alternating current machinery.

Text-book: Christie, *Electrical Engineering*.

Reference books: Lawrence, *Principles of Alternating Current Machinery*; Dawes, *Electrical Engineering, Vol. II*.

- (b) Alternating Current Laboratory.

The experiments are designed mainly to illustrate the theory of the course and when possible the re-

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sults of experiment will be checked by calculations from machine data. Practice in the operation and control of the machines in the University powerhouse is also afforded.

Reference books: Ricker and Tucker, *Electrical Engineering Laboratory Experiments*; Karapetoff, *Experimental Electrical Engineering, Vol. II*.

77. Electrical Machine Design. 1 hr. lect., 2 hrs. lab.

The design of generators, motors and transformers.

The preparation of specifications.

Text-book: Gray, *Electrical Machine Design*.

Reference book: Slichter, *Design of Electrical Machinery*.

78. Electrical Power Transmission and Distribution. 2 hrs. lect.

The design of transmission and distribution lines for direct and alternating current systems and a consideration of the economic, electrical and mechanical principles involved. The design and operation of electric power-plants and substations. The preparation of plans and specifications. Experiments on artificial lines and high tension phenomena are included in 81 (b).

Text-book: Woodruff, *Electric Power Transmission and Distribution*.

Reference books: *Electrical Characteristics of Transmission Circuits* (Compiled by Nesbit); Morrow, *Electric Power Stations*; Weingreen, *Electric Power Plant Engineering*.

80. Electrical Communications. 2 hrs. lect. sec. half.

History and development; fundamental telephone and telegraph circuits and apparatus; the distribution of current and electromotive force over telephone lines; loaded lines and filters. The theory of oscillatory circuits and electromagnetic radiation; vacuum tubes and their application; radio communication. The principles of long-distance, automatic and carrier current telephony. Experiments on vacuum tubes and telephone circuits are included in 81 (b).

Text-book: Wright and Puchstein, *Telephone Communication*.

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Reference books: Turner, *Wireless Telegraphy and Telephony*; Van der Bijl, *The Thermionic Vacuum Tube and its Application*; *Current Journals*.

81. Industrial Applications of Electric Power.

2 hrs. lect. first half.

2 hrs. lect., 3 hrs. lab. sec. half.

(a) (1) Electric Railways.

The principles of train operation; control systems; substations; distribution systems; electric locomotives and regeneration.

(2) Illumination and Photometry.

The laws of illumination; standards of light; photometers; the characteristics of electric lamps; interior and exterior illumination.

(3) Industrial motor appliances. Electric furnaces and electric welding. General applications.

(4) Standards of the A.I.E.E.; National Electric Code. The Electrical Protection Act. Specifications and Contracts.

Reference books: Manson, *Railroad Electrification and the Electric Locomotive*; Harding, *Electric Railway Engineering*; Cady and Dates, *Illuminating Engineering*; *Standard Handbook for Electrical Engineers*.

(b) Industrial Applications Laboratory.

A general course designed to illustrate the theory of E.E. 78, 80 and 81. Experiments are included on artificial lines, high tension phenomena, telephone circuits, vacuum tubes and illumination.

DEPARTMENT OF ENGLISH

Junior Courses.

1. Composition and Literature.

3 hrs.

Practice in composition and study of selected texts. *The Century Handbook of Writing*.

The following books are prescribed, in part as illustrative material for the work in composition, in part as an approach to the appreciation of certain types of literature: Shakespeare, *Romeo and Juliet* (Tudor

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Shakespeare); *A Century of English Essays* (Everyman's Library); Reade, *The Cloister and the Hearth* (ed. Wheeler, Oxford); *Selected Short Stories* (World's Classics, Oxford); *An Anthology of Modern Verse* (Methuen); Shaw, *Saint Joan* (Constable).

*2. A General Reading Course in English Prose. 3 hrs.

A survey of English prose from the seventeenth century to the present day, based on selections from the following: Bacon, Browne, Milton, Dryden, Swift; the periodical essay in the eighteenth century; eighteenth century letters; Richardson, Fielding, Johnson, Sterne, Smollett, Burke, Wordsworth, Scott, Coleridge, Jane Austen, Charles Lamb, Hazlitt, Carlyle, Macaulay, Thackeray, Dickens, George Eliot, Ruskin, Arnold, Stevenson, Meredith, and Hardy.

English Prose from Bacon to Hardy, edited by E. K. Broadus and R. K. Gordon (Oxford Press).

3. Composition for Students in Agriculture. 1 hr.

Written and oral themes.

Senior Courses.

English 2, or an equivalent in mental discipline, is prerequisite to all senior courses in English literature.

52. A History of English Fiction. 3 hrs.

Lectures and class discussion.

Students are required to read the following works: Lodge's *Rosalind*; Bunyan's *Pilgrim's Progress*; Defoe's *Robinson Crusoe*; Smollett's *Roderick Random*; Richardson's *Clarissa Harlowe*; Fielding's *Tom Jones*; Sterne's *Tristram Shandy*; Goldsmith's *Vicar of Wakefield*; Scott's *Waverley*; Jane Austen's *Pride and Prejudice*; Dickens's *David Copperfield*; Thackeray's *Vanity Fair*; Trollope's *Barchester Towers*; Charlotte Bronte's *Jane Eyre*; George Eliot's *Adam Bede*; Meredith's *The Egoist*; Hardy's *The Return of the Native*; and the selections in *The English Novel Before the Nineteenth Century*, edited by Hopkins and Hughes (Ginn); Cross, *The Development of the Novel* (Macmillan).

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53. Shakespeare.

3 hrs.

Lectures and class discussion.

Special study of the historical plays and of selected comedies and tragedies, with special reference to the development of Shakespeare's art as a dramatist. The following plays will be studied in the given order: *Henry VI, Parts 1, 2 and 3; Richard III; King John; Richard II; Henry IV, Parts 1 and 2; Henry V; Love's Labour's Lost; The Comedy of Errors; The Two Gentlemen of Verona; The Taming of the Shrew; The Merchant of Venice; Midsummer Night's Dream; Twelfth Night; The Tempest; Romeo and Juliet; Hamlet; Lear.* Texts: *The Tudor Shakespeare* (Macmillan), and Neilson and Thorndike's *Facts About Shakespeare* (Macmillan).

54. Composition for Students in Agriculture.

1 hr.

Written and oral themes.

***57. Studies in the Poets of the Romantic Period.**

3 hrs.

Lectures and class discussion.

Wordsworth, Coleridge, Scott, Byron, Shelley, Keats; *English Poetry and Prose of the Romantic Movement*, ed. Woods (Scott, Foresman).

59. Nineteenth Century Prose.

3 hrs.

Lectures and class discussion.

Study of Burke, J. S. Mill, Carlyle, Newman, Arnold, Ruskin, Huxley, as representative of English thought from the time of the French Revolution. Burke, *Reflections on the French Revolution* (World's Classics); J. S. Mill, *Utilitarianism*, and *Liberty* (Everyman's Library); Carlyle, *Sartor Resartus*, edited by MacMechan (Ginn); *Heroes and Hero-Worship*, edited by MacMechan (Ginn); *Past and Present* (World's Classics); Newman, *Apologia* (Oxford); *Idea of a University* (Selections, Houghton Mifflin); Arnold, *Selections* (Holt); Ruskin, *Selections and Essays* (Scribner's); Huxley, *Readings* (Harcourt, Brace).

60. Milton.

3 hrs.

Lectures on essential aspects of seventeenth century life and literature.

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Special study of *Paradise Lost*, and of selections from the prose works and minor poems.

Milton's Poetical Works (Oxford); *Selected Essays of John Milton* (Houghton Mifflin).

(Not offered 1927-28).

62. Chaucer.

3 hrs.

Lectures on English mediaeval life and literature. Special study of Chaucer's *Troilus and Criseyde*, and of the *Canterbury Tales*. Chaucer's *Works* (Oxford).

(Not offered 1927-28.)

Honours Courses.

104. Old English and History of the English Language.

3 hrs.

Emerson, *History of the Language* (Macmillan); Moore and Knott, *Elements of Old English* (George Wahr, Ann Arbor); Chambers and Wyatt, *Beowulf* (Cambridge University Press).

110. Chaucer.

3 hrs.

The same as English 61, with the addition of *The Book of the Duchesse*, *The House of Fame*, and *The Legend of Good Women*.

(Not offered 1927-28.)

109. Conference Course.

Special topics to be arranged in consultation with the instructor.

DEPARTMENT OF ENTOMOLOGY

1. General Economic Entomology.

2 hrs. lect.

Structure and habits of insects in relation to their economic importance. Principles of control methods. Life histories and control of more important insect pests.

Text-book: Lochhead, *Economic Entomology*.

61. General Entomology.

3 hrs. lect., 3 hrs. lab.

Structure of insects, their habits and interrelationships; introduction to classification and recognition of common species; insects of major importance to agriculture and to human health.

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Text-book: Folsom, *Entomology with reference to its Ecological Aspects*.

Reference books: Comstock, *An Introduction to Entomology*; Imms, *Textbook of Entomology*.

62. Taxonomy and Technique. 6 hrs. lect.-lab.

Classification of insects; methods of studying life histories; breeding, mounting and preserving insects.

Text-book: Comstock, *An Introduction to Entomology*.

Prerequisite: Entomology 61.

63. Advanced Taxonomy. 6 hrs. lect.-lab.

Classification and biology of, and literature upon, two or more of the major orders. Intending students must have prepared a general collection, which shall include at least fifty species in each order that they select for special study.

Prerequisite: Entomology 62.

DEPARTMENT OF FIELD CROPS

Junior Courses.

1. Elementary Field Crops. 2 hrs. lect., 2 hrs. lab.

Life cycle of crop plants in general, covering seed structure, germination, growth, food storage, fertilization and embryogeny; ecological factors influencing crop distribution and production; methods of plant improvement; a general study of principles and practices involved in field husbandry; identification of the principal varieties of crop plants and weeds, and their seeds. Text-book: Hutcheson and Wolfe, *Production of Field Crops*.

Senior Courses.

50. Farm Crops. 2 hrs. lect., 3 hrs. lab.

Grasses, cereals, flax, legumes, sunflowers, roots and potatoes. Botanical structures and relationships, and varietal characteristics are systematically studied. Laboratory practice is given in the identification and classification of species and varieties, especially of the common grasses and cereals. Economic aspects, including distribution, adaptation, uses and values, are briefly

FIELD CROPS

reviewed. Wild grasses are studied in relation to their importance on the range lands of the province.

Prerequisite: F.C. 1 or equivalent credit, Bot. 1.

Text-book: Robbins, *Botany of Crop Plants*.

51. Crop Production: Principles and Practice. 3 hrs. lect.

Climatic factors; soil factors and root systems of crop plants; crop rotations and tillage methods; preparation of seed and seeding; harvesting and storage; crop adaptations and the nature of yielding capacity; irrigation problems.

Prerequisite: F.C. 50; Soils 51 and 52.

54. Seeds and Grains. 3 hrs. lect.—lab.

Review of fertilization, embryogeny, structure, function and germination of seeds; identification of economic and weed seeds; seed and grain grading and inspection; varietal characteristics and judging of agricultural seeds and grains.

61. Genetics. 3 hrs. lect. first half.

An introductory course giving a survey of the field of genetics and designed to acquaint the student with the laws of variation and heredity with some suggestions of their application to the improvement of plants and animals.

62. Principles and Methods of Plant Breeding. 3 hrs. lect., sec. half.

A study of the application of genetic principles to plant breeding, with special reference to the role of hybridization and selection in plant improvement. The technique of plant breeding, plot management, use of checks and replicates, yield corrections, experimental error and interpretation of results, systems of seed distribution, and methods of pure seed production by farmers. Prerequisite: F.C. 50 and F.C. 61.

Honours Courses.

101. Advanced Farm Crops. 6 hrs.

A topical course, in which individual students select two or more important crops for intensive study in library

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and laboratory. Weekly meetings for discussion, in addition to supervised laboratory work.
(Not offered 1927-28.)

111. Advanced Genetics and Cytology. 6 hrs.

Study assignments and weekly conferences covering recent literature in genetics and cytology. Laboratory exercises involving breeding experiments with the fruit fly, statistical treatment of breeding ratios in corn, preparation of material for cytological study, and detailed microscopic study of somatic cell division, meiosis and double fertilization.

Prerequisite: F.C. 61.

(Not offered 1927-28.)

121. Plant Biochemistry. 3 hrs. lect.

Physical and chemical principles underlying crop production; nature of plant adaptations to resist frost, drought, and disease; problems concerning the milling and baking quality of wheat.

(Not offered 1927-28.)

200. Seminar in Field Crops. 1 hr.

Reports by students on the literature of selected topics, with class discussions. Required every year of all graduate students in field crops.

Graduate Courses.

Students with the necessary training may take work leading to the degree of M.Sc. Honours courses in field crops, related courses in other departments, and a research project in a field of work covered by the list of field crops courses may be selected in consultation with the student's adviser. Owing to limited accommodation for research, students desiring to register for such work should make arrangements well in advance.

DEPARTMENT OF GENERAL LITERATURE

51. Old and New Testament Literature.

A study of the historical background, authorship, sources, literary qualities, and general teaching of the various books and groups of books in the Old Testament. A sketch of the Jewish literature subsequent to

GEOLOGY

the Old Testament canon; the Jewish and Hellenistic environment; the occasion, authorship and content of the various books of the New Testament; the growth of the canon; the history of the text.

51. Classics in English.

See Department of Classics, page 154.

51. Comparative Literature.

See Department of Modern Languages, page 195.

DEPARTMENT OF GEOLOGY

32. Introductory Geology. 3 hrs. lect., 3 hrs. lab. first half. 3 hrs. lab. sec. half.

Physical geology and physiography; principles of mapping; interpretation of topographic maps; rocks and rock-forming materials. Lecture taken with Geology 51, first half.

Text-book: Ries and Watson, *Elements of Engineering Geology* (Wiley).

33. Geography of Mineral Deposits. 3 hrs. lect. first half.

The physiographical units of the world and the geographical distribution of mineral deposits.

Senior Courses.

51. General Geology. 3 hrs. lect., 3 hrs. lab.

Processes of destruction and reconstruction; interpretation of physiographical features with map study; stratigraphic column with index fossils from each period; common minerals and rocks.

Text-books: Coleman and Parks, *Elementary Geology* (Dent); Pirsson and Schuchert, *Text-book of Geology, Part 1* (Wiley).

52. Mineralogy. 3 hrs. lect., 3 hrs. lab.

Principles of crystallography; physical and chemical properties of the metallic and non-metallic minerals; blow-pipe analysis.

Text-books: Dana's *Text-book of Mineralogy*, Third

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edition, W. E. Ford (Wiley); Lewis, *Determinative Mineralogy* (Wiley).

Reference: Brush and Penfield, *Determinative Mineralogy and Blow-Pipe Analysis* (Wiley).

53. Palaeontology. 3 hrs. lect., 3 hrs. lab.

Principles of classification; comparison of fossil and modern forms; classification and study of fossil invertebrates, vertebrates and plants; determination of type material.

Reference: Zittel, *Text-book of Palaeontology* (Macmillan); Shimer, *Introduction to the Study of Fossils* (Macmillan); various palaeontological memoirs, etc.

54. Petrology. 3 hrs. lect., 3 hrs. lab.

Introduction to petrography; optical properties of common rock-forming minerals; classification and genesis of sedimentary, igneous and metamorphic rocks; examination of rock sections.

Text-books: Winchell, *Elements of Optical Mineralogy* (Wiley); Johannsen, *Essentials for the Microscopical Determination of Rock-Forming Minerals and Rocks* (University of Chicago Press).

Reference: *Determination of Rock-Forming Minerals* (Wiley); Iddings, *Rock Minerals* (Wiley).

55. Stratigraphy. 3 hrs. lect., 3 hrs. lab.

Principles of stratigraphy; sedimentation; interpretation of geological maps; structure in stratified rocks; historical geology; index fossils.

Reference: Twenhofel, *Treatise on Sedimentation* (Williams and Wilkins); Grabau, *Principles of Stratigraphy* (Heath); Pirsson and Schuchert, *Text-book of Geology, Part II* (Wiley); Grabau, *Text-book of Geology* (Heath); Geological Survey Reports, Journals, etc.

Prerequisite: Geology 51.

56. Stratigraphy (For Applied Science Students).

3 hrs. lect., 3 hrs. lab.

Principles of stratigraphy and sedimentation; historical geology; index fossils.

Reference: Twenhofel, *Treatise on Sedimentation* (Williams and Wilkins); Grabau, *Principles of Stratigraphy* (Heath); Pirsson and Schuchert, *Text-book of Geology* (Wiley); Geological Survey Reports, etc.

HISTORY

58. Mineral Deposits.

3 hrs. lect., 3 hrs. lab.

Classification, mode of occurrence and geological relations of various types of mineral deposits, including petroleum, natural gas and coal. Emphasis given to Alberta mineral deposits, including clays.

Text-books: Ries, *Economic Geology* (Wiley); W. H. Emmons, *General Economic Geology* (McGraw-Hill); Ries, *Clays, Occurrences, Properties and Uses* (Wiley). Reference: Moore, *Coal* (Wiley); Lindgren, *Mineral Deposits* (McGraw-Hill); W. H. Emmons, *Geology of Petroleum* (McGraw-Hill).

DEPARTMENT OF HISTORY

Junior Courses.

1. General History.

3 hrs.

Outlines of General History from the Renaissance to the present day.

Text-books: Hayes, *A Political and Social History of Modern Europe, Vol. I*; Robinson and Beard, *The Development of Modern Europe, Vol. II*; Robinson, *Readings in European History, Vol. II*.

*2. British History.

3 hrs.

From 1485 to the present day.

Text-books: Ramsay Muir, *Short History of the British Commonwealth* and Philip's *New Historical Atlas*.

Reference readings will be assigned during the course.

3. British History.

3 hrs.

From the beginning to 1485.

Text-books: Oman, *England before the Norman Conquest*; Davis, *England under the Normans and Angevins*; Vickers, *England in the Later Middle Ages*.

Reference readings will be assigned during the course.

Senior Courses.

53. European History.

3 hrs.

From the Barbarian Invasions to the fall of the Hohenstaufen.

Text-books: Emerton, *Introduction to the Middle Ages*; Emerton, *Mediaeval Europe*.

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54. European History.

3 hrs.

From the Renaissance to the end of the Wars of Religion.

Text-books: Symonds, *Short History of the Italian Renaissance*; Froude, *Life and Letters of Erasmus*; Lindsay, *History of the Reformation*; Harrison, *William the Silent*; Gardiner, *Thirty Years' War*; *Cambridge Modern History* (selected chapters).

Reference readings will be assigned during the course.

(Not offered 1927-28.)

56. European History.

3 hrs.

From the congress of Vienna to the present day.

Text-books: Hazen, *Europe Since 1815*; Powers, *The Things Men Fight For*; Robinson and Beard, *Readings in Modern European History, Vol. II*.

Reference books: Lichtenberger, *Germany and its Evolution in Modern Times*; Steed, *The Hapsburg Monarchy*; Fisher, *The Republican Tradition in Europe*; Cesaresco, *The Liberation of Italy*; Lowell, *Governments and Parties in Continental Europe*; *Cambridge Modern History* (selected chapters).

Other reference readings will be assigned during the course.

(Not offered 1927-28.)

57. English Constitutional History.

3 hrs.

Text-books: Maitland, *Lectures on English Constitutional History*; Adams and Stephens, *Select Documents of English Constitutional History*; Dicey, *The Law of the Constitution*.

Reference readings will be assigned during the course.

***58. Canadian History.**

3 hrs.

Political and constitutional.

Text-books: Lucas, *New France*; Durham's Report; Kennedy, *The Constitution of Canada*; Burpee, L. J., *An Historical Atlas of Canada*.

Reference readings will be assigned during the course.

Honours and Graduate Courses.

101. English History.

3 hrs.

From the accession of James I to the Restoration.

Text-books: Montague, *History of England, 1603 to 1660*

HISTORY OF AGRICULTURE

for the general outline; Gardiner, *History of England, 1603 to 1642*; *History of the Great Civil War*; *History of the Commonwealth and Protectorate*; Firth, *Last Years of the Protectorate*; *House of Lords During the Civil War*; *Cromwell's Army*; *Cromwell*; Hutton, *Laud*; Trail, *Strafford*; Shaw, *A History of the English Church During the Civil Wars and under the Commonwealth*; Prothero, *Statutes and Constitutional Documents, 1559-1625*; Gardiner, *Constitutional Documents of the Puritan Revolution, 1625-1660*; Carlyle, *Cromwell's Letters and Speeches*; Clarendon, *History of the Rebellion and Civil Wars in England*; Whitlocke's *Memorials*; Ludlow's *Memorials*; *Pepys' Diary*; *The Clarke Papers*.

(Not offered 1927-28.)

102. European History.

3 hrs.

From the outbreak of the French Revolution to the Congress of Vienna.

Text-books: Madelin, *The French Revolution*, and Rose or Fournier, *Napoleon I*, for the general outline; De Tocqueville, *L'Ancien Régime*; Taine, *Les Origines de la France Contemporaine*; Sorel, *L'Europe et la Revolution Française*; Belloc, *Danton*; Mahan, *The Influence of Sea Power on the French Revolution and Empire*; Morse Stephens, *The French Revolution*; Acton, *Lectures on the French Revolution*; Vandal, *L'Avènement de Bonaparte*; Fisher, *Napoleonic Statesmanship*; Aulard, *Political History of the French Revolution*; *Etudes et Leçons*; *The Cambridge Modern History*; Lavissee et Rambaud, *Histoire Générale*; von Sybel, *Geschichte der Revolutionszeit*; Seeley, *The Life and Times of Stein*; Oman, *A History of the Peninsular War*. Houssaye, 1814, 1815.

DEPARTMENT OF HISTORY OF AGRICULTURE

Junior Courses.

1. History of Agriculture.

1 hr.

Study of ancient agriculture: South American, Grecian, Roman.

2. History of Agriculture.

1 hr.

Evolution of agriculture in England and in continental Europe.

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Senior Courses.

51. History of Agriculture.

1 hr.

Study of the development of agriculture in America, particularly in Canada.

DEPARTMENT OF HORTICULTURE

Junior Courses.

2. Horticulture.

3 hrs. lect.

Vegetable Gardening.

The course is intended to cover a general knowledge of the more important vegetables, their soil and fertilizer requirements, cultural methods, harvesting and storing.
Text-book: *Vegetable Gardening*, Green.

Floriculture.

The growing of annual, biennial and perennial flowers for general garden purposes; the care and management of house plants; bulb culture.
Text-book: *Home Floriculture*, Rexford.

Farm Forestry.

A study of the leading forest trees with reference to their distribution and usefulness; the farm woodlot; the use of waste places.

Senior Courses.

51. Horticulture.

2 hrs. lect., 2 hrs. lab.

Propagation of Plants.

The propagation of plants by natural and artificial means; hot beds and cold frames.
Reference: *The Nursery Manual*, Bailey.

Fruit Gardening.

The course covers in a general way the planting, cultivating, pruning and propagating of fruits.
Texts: Bulletins, Reports.

HORTICULTURE

Home Beautification.

The course provides instruction in the methods of beautifying the home surroundings; care of trees, shrubs, vines and flowers; the use of hedges and screens.

Reference: *Practical Landscape Gardening*, Cridland. Bulletins, Reports.

52. Horticulture.

2 hrs. lect., 2 hrs. lab.

Vegetable Gardening.

A study of the leading varieties of vegetables; market gardens and truck farms; vegetable forcing; problems of seed culture; management; storage; marketing and canning; selection and breeding; judging vegetables.

Text-books: *Vegetable Growing*, Lloyd; *Vegetable Gardening*, Watts.

Floriculture.

Growing flowers for decorative and bedding purposes, construction of beds and borders; construction and management of greenhouses; breeding new varieties; growing seed.

References: *Greenhouse Management*, Taft; *Greenhouse Construction*, Wright; *Principles of Floriculture*, White.

Fruit Growing.

A study of the fundamental principles; a study of the work of breeding new and hardy varieties; breeding technique.

References: *Fundamental Principles of Fruit Growing*, Gardner, Bradford and Hooker. Bulletins, Reports.

Landscape Gardening.

General principles of laying out beds, borders, walks and drives; correct planting of flowers, shrubs, vines and trees; the prairie style of landscape gardening.

References: *Landscape Gardening*, Waugh; *Landscape Gardening*, Maynard.

Forestry.

Care of forest tree seeds; propagating and growing shrubs and trees; a study of the protective influence of windbreaks, shelter belts and forests on stock, crops, fruits and homes; forest resources; forest protection.

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DEPARTMENT OF HOUSEHOLD ECONOMICS

Junior Courses.

- 1. Sewing.** 4 hrs. sec. half.
Instruction in hand and machine sewing as applied to the making of simple garments.

- 2.** 3 hrs. lect., 3 hrs. lab. first half.

Home Nursing.

Home care of the sick; emergencies; simple bandages.

Textiles.

The composition, physical properties and manufacture of fabrics; influence of these on selection and methods of cleansing.

- 3.** 3 hrs. lect., 3 hrs. lab. sec. half.

Household Management.

Materials found in the home; principles involved in their care; the house, its equipment and furnishing. Labor-saving devices.

Foods.

An introduction to the study of foods and cookery.

- 31. Experimental Cookery.** 2 hrs. lect., 4 hrs. lab.

An experimental study of foods.

- 32. Textiles.** 2 hrs. lect., 2 hrs. lab. first half.

Fibres: Classification; physical and chemical structure; physical and chemical test for fibres.

Fabrics: Manufacture; adulterations; uses in the household; laundering of fabrics.

- 33. Household Management.** 2 hrs. lect., 2 hrs. lab. sec. half.

Materials found in the home; principles involved in their care; the house, its equipment and finishings; labor-saving devices.

HOUSEHOLD ECONOMICS

36. **Foods and Cookery.** 60 hrs.

An elementary course for nurses. The composition and nutritive value of foods. Laboratory practice in food preparation.

37. **Dietetics.** 16 hrs.

A course for nurses. Diet in health and disease.

Senior Courses.

51. 3 hrs. lect., 3 hrs. lab.

Foods.

A study of foods: laboratory practice in food preparation.

Home Nursing.

The care of the sick in the home.

Household Management.

The care of the house, furnishings and equipment; labor-saving devices.

52. 3 hrs. lect., 3 hrs. lab.

Economics of the Household.

The home as a business; the income and its expenditure; standards of living, budgets; household and personal accounts.

Foods.

Nutritive value and cost of foods; food for the family group; planning and preparation of meals; special diets.

55. 2 hrs. lect., 8 hrs. lab.

Foods.

Lectures and discussion.

Typical foods—production, manufacture, composition, value in the diet. Supplementary reading will be required and used as a basis for class discussion.

Laboratory work: An experimental study of foods; the principles of cookery.

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- 56. Economics of the Household.** 2 hrs. lect.
The home as a business; the income and its expenditure; standard of living, budgets; household and personal accounts.
- 57. Dietetics.** 2 hrs. lect., 3 hrs. lab.
The principles of nutrition applied to the feeding of individuals and the family group under normal conditions. Diets for special cases.
- 58.** 1 hr. lect., 3 hrs. lab. sec. half.
Food and Diet for the Sick.
An application of the principles of cookery to dishes for the sick and convalescent.
- 59.** 1 hr. lect., 3 hrs. lab. first half.
Methods.
The problem of teaching. Household Economics; equipment, arrangement of courses; methods of presentation of subject matter; demonstrations.
- 61. Foods and Cookery.** 3 hrs. lect., 3 hrs. lab.
For nurses in the degree course. The composition and nutritive value of foods. The essentials of an adequate diet. Laboratory practice in food preparation.

DEPARTMENT OF MATERIA MEDICA

Junior Courses.

- 1. Official Drugs.** 4 hrs. lect.
Inorganic and organic.
- 3. Official Drugs.** 1 hr. lect.
A selected group, both inorganic and organic. For Medical students.
- 4.** 1 hr. lect.
A course for students in Dentistry, dealing with the source, physical properties, chemical constitution and properties, pharmacy and pharmacology of a selected list of important drugs of special significance to dental practitioners.

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5. 1 hr. lect.

A special course for Nurses in training at the University Hospital.

Senior Courses.

51. **Official Drugs.** 4 hrs. lect.

Inorganic and organic.

52. **Official and Non-Official Drugs.** 4 hrs. lect.

A selected list of important non-official drugs and a more minute study of some important official drugs. Text-books: Bruce and Dilling, *Materia Medica and Therapeutics*; *British Pharmacopoeia*; American Medical Association, *New and Non-official Remedies* (Students in *Materia Medica* 52 only).

Supplementary: Greenish, *Materia Medica*; Squire's *Companion to the British Pharmacopoeia*; Culbreth, *Materia Medica and Pharmacology*; Martindale, *Extra Pharmacopoeia*.

DEPARTMENT OF MATHEMATICS

Junior Courses.

- *1. **General Elementary Mathematics.** 3 hrs.

The fundamental principles and methods of elementary mathematics.

Text-book: Griffin, *Introduction to Mathematical Analysis* (Houghton Mifflin).

Required of first year students in Arts and Sciences, in Agriculture and in Architecture.

2. **General Elementary Mathematics.** 6 hrs.

As in Mathematics 1, with additional topics and applications.

Text-book: Griffin, *Introduction to Mathematical Analysis* (Houghton Mifflin).

Required of first year students in Engineering.

- *7. **Calculus and Analytical Geometry** 3 hrs.

Calculus; related topics in Analytical Geometry and Algebra.

Text-books: Osgood, *Introduction to the Calculus* (Macmillan).

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21. Calculus and Analytical Geometry.

3 hrs. first half, 6 hrs. sec. half.

As in Mathematics 7, with additional topics and applications.

Text-books: Wilczynski and Slaughter, *College Algebra* (Allyn and Bacon); Osgood, *Introduction to the Calculus* (Macmillan).

Solid Geometry and Spherical Trigonometry.

3 hrs. first half.

Text-book: Murray, *Spherical Trigonometry* (Longmans).

Required of second year students in Engineering and Architecture.

22. Elementary Mechanics. 3 hrs. lect., 2 hrs. lab. sec. half.

The fundamental principles of elementary mechanics involved in the kinematics and dynamics of particles, and the plane motions of rigid bodies.

Text-book: Campbell, *An Introduction to Mechanics*.

Co-requisite: Mathematics 7.

25. Calculus and Differential Equations.

3 hrs.

Text-book: Caunt, *Infinitesimal Calculus* (Oxford).

Prerequisite: Mathematics 21.

26. Mechanics.

3 hrs. lect., 2 hrs. lab. first half.

Text-book: Campbell, *An Introduction to Mechanics*.

Prerequisite: Mathematics 22.

32. Elementary Mathematics (Medicine). 3 hrs. first half.

Proportion, similitude; rate of growth; trigonometry; computation; graphical methods; theory of measurements, elementary statistics.

Text-book: Tuttle and Satterly, *Theory of Measurements* (Longmans).

Senior Courses.

53. Astronomy.

3 hrs.

History of early astronomy, study of the earth; astronomical coordinates, time. The solar system, the stars,

MATHEMATICS

structure of the universe, origin of the solar system. Practical work; study of the constellations; discussion of articles in current journals.

Text-book: Moulton, *Introduction to Astronomy* (Macmillan).

Prerequisite: Mathematics 1.

55. Calculus and Differential Equations. 3 hrs.

As in Mathematics 25, with additional topics.

Prerequisite: Mathematics 7.

56. Mechanics. 3 hrs.

As in Mathematics 26, with additional topics.

Prerequisite: Mathematics 22.

57. Advanced Calculus. 3 hrs.

Differential equations; Fourier's series; line, surface and volume integrals.

Prerequisite: Mathematics 25 or 55.

58. Advanced Mechanics. 3 hrs.

Dynamics of rigid bodies; celestial mechanics.

Prerequisite: Mathematics 56.

(Not offered 1927-28.)

59. Advanced Calculus. 3 hrs. first half.

Differential equations; Fourier's series.

Required of Electrical Engineering students.

61. Theory of Finance. 3 hrs.

Interest, annuities, amortization, valuation of bonds, sinking funds and depreciation, theory of probability, life assurance.

Text-book: Hart, *Mathematics of Investment* (Heath).

Prerequisite: Mathematics 1.

(Not offered 1927-28.)

***62. Statistics. 3 hrs.**

Use of statistics, collection of material and the history of statistics; frequency distributions and graphical representation of statistical results; averages; dispersion; correlation; probability and sampling.

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Text-book: Chaddock, *Principles and Methods of Statistics* (Houghton Mifflin).

Prerequisite: Mathematics 1.

63. Graphical and Numerical Methods.

2 hrs. lect., 3 hrs. lab. sec. half.

Application of graphical methods to algebra and calculus. Nomography. Introduction to the theory of probabilities and measurements.

Text-book: Lipka, *Graphical and Numerical Methods* (Wiley).

64. Vector Analysis.

3 hrs.

(Not offered 1927-28.)

65. Theory of Least Squares.

2 hrs. lect., 3 hrs. lab. sec. half.

(Not offered 1927-28.)

Honours Courses.

101. Foundations of Mathematics.

2 hrs.

(Not offered 1927-28.)

102. Theory of Functions.

2 hrs.

103. Geometry.

2 hrs.

(Not offered 1927-28.)

104. Algebra.

2 hrs.

105. Selected Topics.

2 hrs.

(Not offered 1927-28.)

DEPARTMENT OF MEDICINE AND CLINICAL MEDICINE

51. Medicine and Clinical Medicine. 1 hr. lect., 9 hrs. clinic.

Lectures in theoretical medicine in medical building and clinics at University Hospital Out-patient Clinic. One lecture per week in systematic medicine. Lectures, clinics and demonstrations in the out-patient department and wards of the hospital. Surface markings, history taking and physical examination of patients.

MEDICINE

52. Medicine and Clinical Medicine.

2 hrs. lect., 10½ hrs. clinic.

Lectures in theoretical medicine and clinics at University Hospital. The instruction in this class will consist of a continuation of the lectures in systematic medicine once a week in the medical building and of bedside teaching in the wards of the hospital. Special attention will be given to differential diagnosis of main symptoms during the term, and students will have an opportunity of observing the progress of cases and the effects of treatment.

53. Medicine and Clinical Medicine.

2 hrs. lect., 11 hrs. clinic.

During the final year, students will have the opportunity of acting as assistants to the internes of the hospital and will be expected to help in routine clinical laboratory work in the hospital, in writing histories and keeping up progress notes in careful detail, in routine ward-work and in out-patient clinics. Special lectures will be given during the session in the more advanced principles of general internal medicine, cardiology, tuberculosis, neurology, and paediatrics. Opportunities will be offered for the study of contagious diseases and of mental diseases. Special bed-side lectures will be given in therapeutics to illustrate the principles and application of treatment of disease. A clinical and pathological conference will be held once a week during the session. In association with the Department of Physiology, a short course on the application of physiological principles to medicine will be given.

Text-books: Medicine—Osler's *Practice of Medicine*; Taylor's *Practice of Medicine*; Stevens' *Practice of Medicine*; Clinical Medicine—Raine and Hutchinson, *Clinical Methods*; Rawling, *Surface Markings*; French, *Differential Diagnosis of Main Symptoms*; Purves Stewart, *Diagnosis of Nervous Diseases*.

54. Medicine.

1 hr. lect.

A lecture course for dental students as in Course 51. Clinical instruction as required.

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51. Therapeutics.

1½ hrs.

This comprises a lecture course to the students of the fifth year on general therapeutics, and in addition a course consisting of ward rounds and practical instruction in various therapeutic procedures and prescription writing.

A short course of lectures on anaesthesia will also be given, and in addition the students will be required to attend in groups from time to time for practical demonstrations.

52. Therapeutics.

2 hrs.

This is a combined lecture and clinical course at the hospital to the students of the sixth year. The essential features in the treatment of the various diseases are taken up and made as practical as possible. Each student is required to show efficiency in various therapeutic procedures and is required to give a stated number of anaesthetics under supervision.

Text-books: Bastedo, *Pharmacology and Therapeutics*; Cushiny, *Pharmacology and Therapeutics*; Osborne, *Principles of Therapeutics*; Rudolf, *Medical Treatment*; *Handbook of Therapy*; A.M.A.

53. Therapeutics.

1 hr. lect. sec. half.

This is a course for dental students with particular reference to general anaesthesia. It will comprise, besides lectures and instruction on the general technic of giving the various anaesthetics, a course designed to give the student a working knowledge of the preliminary and after-care of patients and of conditions unfavourable for general anaesthesia.

62. Psychiatry.

1 hr. sec. half.

This course includes a study of insanity and mental deficiency.

- (a) A description of major types of psychoses; their aetiology and symptomatology. Case studies.
- (b) Aetiology and diagnosis of mental deficiency. Training in psychometric investigations.

MINING ENGINEERING

DEPARTMENT OF MINING ENGINEERING

Three Options: Coal Mining, Metal Mining and Mining Geology, are offered in the Fifth Year.

Senior Courses.

54. Fire Assaying. 3 hrs. lab.

Furnaces, balances, and other apparatus; sampling and preparation of ores for assay; assay slags and other products, fusion charges, special methods of assay, assay for gold and silver.

Prerequisite: Chemistry 1.

55. Prepared Fuels. 2 hrs. lect. first half.
3 hrs. lect., 3 hrs. lab. sec. half.

Coke and its by-products, powdered coal, colloidal coal, low temperature distillation, coal briquettes, coal washing and cleaning, fuel oils, gas fuels, etc. Required of students taking Coal Mining option.

Prerequisite: C.E. 57.

56. Principles of Mining. 3 hrs. lect.

Prospecting, deep drilling, earth and rock excavations, drills and coal cutters, explosives and blasting, mine development; timbering, subsidence and support of excavations, mine drainage, illumination and ventilation, mine valuation and management, mine machinery.

58. Metallurgy. 2 hrs. lect., 3 hrs. lab.

Metallurgical fuels, refractory materials, general metallurgical operations, slags, mattes and other furnace products, smelting practice, converting practice, refining processes, metallic alloys, introduction to metallography. Required of students taking Metal Mining, and Mining Geology.

Prerequisites: M.E. 54, Chem. 51.

59. Coal Mining. 2 hrs. lect., 3 hrs. lab. first half.
2 hrs. lect. sec. half.

Coal Mine development, surface and underground layout, mining methods for flat seams, pitching seams, thick seams and multiple seams, hoisting and haulage,

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mine power. Drafting room work on general and detail drawings of surface and underground layout of a coal mine.

Required of students taking Coal Mining Option.

Prerequisite: M.E. 56.

- 60. Metal Mining.** 2 hrs. lect., 3 hrs. lab. first half.
2 hrs. lect. sec. half.

Alluvial mining, open cuts and quarrying; metal mine development. Stoping methods for veins and mass deposits, hoisting and haulage, mine power. Drafting room work on general and detail drawings of surface and underground layout for a metal mine.

Required of students taking Metal Mining Option.

Lecture work required of Geology Option students.

Prerequisite: M.E. 56.

- 63. Ore Dressing.** 2 hrs. lect. first half.
2 hrs. lect., 3 hrs. lab. sec. half.

Crushers and grinders, screens, specific gravity separations and concentrations, settlement and filtration, flotation, dry separations, hydrometallurgical processes for silver, gold, copper, etc.

Required of students taking Metal Mining Option.

Lecture course required of Mining Geology students.

Prerequisites: M.E. 54, M.E. 56.

- 65. Fuel, Oil, Gas and Water Analysis.** 6 hrs. lab.

Laboratory work on the analysis of fuels, oils, boiler waters and flue gases.

Required of students taking Coal Mining Option.

Prerequisite: Chem. 51.

- 67. Mine Survey School.** 2 weeks at end of sec. half.

An extended trip to visit local and other mining districts of the province and adjacent areas of British Columbia. Detailed reports on all mines visited are required from each student. A number of days are spent on practical underground surveying and a closed survey of at least 10 sights made. Field notes of the survey and plotted map are required of each student. Members of the Geology department of the University

MODERN LANGUAGES

accompany the survey school, and the areal geology of each district is studied under their supervision. Required of all students in Mining Engineering before graduation.

First Aid and Mine Rescue.

All students, before graduation, must be able to show:

- (a) A certificate of having passed a course in First Aid work as prescribed by the Workmen's Compensation Board of the Province of Alberta.
- (b) A certificate of having taken a course in Mine Rescue work as prescribed by the Workmen's Compensation Board of the Province of Alberta.

Practical Experience.

Before being granted his degree, a student must present a certificate, or certificates, showing that he has had at least 6 months practical experience in coal, metal or shale mining (in or around a mine) or in Geological field work, or such experience as shall be considered the equivalent of these.

Graduate Courses.

Graduate courses in Mining, Metallurgy or Geology, leading to the degree of Master of Science may be arranged in conference with the head of the department.

DEPARTMENT OF MODERN LANGUAGES

Students who enter the University deficient in the languages and who in their first year are taking the A courses may be permitted, if they obtain 75%, to read the authors of the First Year course during the summer and write these off at the time of the supplemental examinations in September. No credit will be granted until the second year work in the language concerned has been successfully completed.

Similarly, students taking a first year course in a language, who obtain 85 per cent., may with the consent of the department concerned, read the authors of the second year course during the summer and write these off at the time of the supplemental examinations in September at which time second class standing must be obtained. No credit will be granted

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for the course unless and until a senior course in the language concerned is successfully completed in the following year.

Students intending to apply for either of the privileges referred to above should notify the Registrar's office not later than May 15th.

French

A. Introductory French.

3 hrs.

Forms, elementary syntax; oral work; easy prose authors; prose composition.

Text-books: Kerr and Sonet, *French Grammar*; Aldrich and Foster, *French Reader*; Doillet, *Papassier s'en va-t-en guerre*.

Attention is called to the fact that the passing mark in "A" language courses is 65%. (Compare Calendar, page 65.)

Junior Courses.

*1-3. Authors.

3 hrs.

Modern French stories such as: Erckmann-Chatrian, *Histoire d'un Conscrit de 1813*; L'Abbé Constantin; About, *Le Roi des Montagnes*.

Composition and Conversation.

Text-books: Kerr and Sonet, *French Grammar, Part II*. Dictation, composition and oral work based on the authors read. Doillet, *Papassier s'en va-t-en guerre* (Grammaire appliquée).

Prerequisite: Matriculation French or French A.

*5-4. Authors.

3 hrs.

Modern French stories such as: Hémon, *Maria Chapdelaine*; Hugo, *Les Misérables*; Maupassant, *Contes*; Coppée, *Pour la Couronne*.

Composition and Conversation.

Text-book: Vreeland and Koren, *French Composition* (Holt).

Oral work and dictation based on the authors read.

Prerequisite: Grade XII French or French 1-3.

FRENCH

44. Scientific French. 3 hrs.

Introduction to the reading of scientific texts, selected with a view to the needs of students in Applied Science. The same amount of ground will be covered as in French 1-3. Less emphasis, however, will be placed on composition, and more extensive reading experience in scientific literature will be required.

Prerequisite: Matriculation French or French A.

46. Scientific French. 3 hrs.

Introduction to the reading of scientific texts, selected with a view to the needs of students in Medicine. The same amount of ground will be covered as in French 1-3. Less emphasis, however, will be placed on composition, and more extensive reading experience in scientific literature will be required.

Prerequisite: Matriculation French or French A.

Senior Courses.

51. (a) Eighteenth Century. 3 hrs.

Montesquieu, *De l'esprit des lois*; Le Sage, *Turcaret*; Marivaux, *Comédies*; Voltaire, *Lettres philosophiques*; *Candide*, *L'Ingénue* and other selections; *Théâtre*; Rousseau, *La Nouvelle Héloïse*, *Le Contrat Social*; Diderot, *Extracts*; *The Encyclopaedists*; Beaumarchais, *Théâtre*.

(b) Composition and Oral Work.

Text-books: Goodridge, *French Composition*; Mansion, *Histoire de la Littérature Française*.

(Not offered 1927-28.)

*52. (a) Nineteenth Century Literature. 3 hrs.

Chateaubriand, *Extraits*; Balzac, *Eugénie Grandet*; Hugo, *Hernani*; Renan, *Souvenirs d'Enfance et de Jeunesse*; Taine, *Les Origines de la France Contemporaine*; Alfred de Musset, *Les Confessions d'un Enfant du Siècle*, *Poésies choisies*; Flaubert, *Madame Bovary*; Augier, *Le Gendre de M. Poirier*; Selections from Maupassant and Zola; a study of the Parnassiens; Berthon, *Specimens of French Verse*.

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(b) Composition and Oral Work.

Text-books: Goodridge, *French Composition*;
Mansion, *Histoire de la Littérature Française*.

54. (a) French Literature in the XVII Century. 3 hrs.

Introduction to the literature and thought of the Golden Age; selections from the works of the following authors: Molière, Corneille, Racine, Descartes, Pascal, Larocheffoucauld, Madame de La Fayette, Madame de Sévigné, La Fontaine, Bossuet, La Bruyère.

(b) Composition and Oral Work.

Text-books: Spiers, *Graduated Course of Translation into French Prose*; Mansion, *Histoire de la Littérature Française*.

55. (a) French Canadian Literature. 3 hrs.

Origins and development.

Selected works of de Gaspé, Gérin-Lajoie, Crémazie, Fréchette, Chauveau, Marmette, Le May, Chapman, Choquette, Laure Conan, Lozeau, Rivard.

(b) Composition and Oral Work.

Text-books: Spiers, *Graduated Course of Translation into French Prose*.

(Not offered 1927-28.)

Honours Courses.

101. Romanic Philology. 2 hrs.

Introduction to historical phonology; reading of old French texts.

Prerequisite: Two of the following courses: 51, 52, 54, 55.

102. French Literature. 1 hr.

Study in a special field, discussion, reports, theses.

Prerequisite: Two of the following courses: 51, 52, 54, 55.

(Not offered 1927-28.)

GERMAN

German

***A. Introductory German. 3 hrs.**

This course will cover the common inflections and the elementary rules of syntax. It aims to give students a reading knowledge of easy German. Oral work and composition based on the authors. Attention is called to the fact that the passing mark in "A" language courses is 65%. (Compare Calendar, page 65.)

Junior Courses.

1-3. Authors. 3 hrs.

Modern German short stories graded in respect to syntactical difficulties.

Composition and Oral Work.

Review of German A. Supplementary study of grammatical and syntactical forms. Dictation, composition and oral work based on the authors read.

Prerequisite: Matriculation German or German A.

2-4. Authors. 3 hrs.

Novellen of the Nineteenth Century as introductory to the study of German literature.

Composition and Oral Work.

Special problems of Grammar and Syntax. Formation of words, etc. Oral work. Composition based on the authors read.

Prerequisite: Grade XII or German 1-3.

44. Scientific German. 3 hrs.

Introduction to the reading of scientific texts to be selected with a view to the needs of students in Applied Science. The same amount of ground will be covered as in German 1-3. Less emphasis, however, will be placed on composition, and more extensive reading experience in scientific literature will be required.

Prerequisite: Matriculation German or German A.

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46. Scientific German.

3 hrs.

Introduction to the reading of scientific texts to be selected with a view to the needs of students in Medicine. The same amount of ground will be covered as in German 1-3. Less emphasis, however, will be placed on composition, and more extensive reading experience in scientific literature will be required.

Prerequisite: Matriculation German or German A.

Senior Courses.

54. German Literary Classicism.

3 hrs.

Its development and chief characteristics, with some reference to Greek and Roman antiquity and the cultural background of the eighteenth century.

Study of the masterpieces of Lessing, Goethe, and Schiller.

55. Modern German Literature.

3 hrs.

Literary types in the first half of the nineteenth century with some reference to the changing social and political conditions. The course will consist of two parts to be taken concurrently and as a unit.

(a) Romantic Drama (two hours weekly), Kleist, Grillparzer, Hebbel and Ludwig.

(b) Lyric poetry or prose fiction (one hour weekly).

56. Modern German Literature.

3 hrs.

Literary types in the last half of the nineteenth century and first quarter of the twentieth century, with some reference to the revolution of 1848-49 and that of 1918-19. The course will consist of two parts to be taken concurrently and as a unit.

(a) Realistic Drama (two hours weekly), Ibsen, Hauptmann, Sudermann, Schnitzler.

(b) Prose fiction or lyric poetry (one hour weekly).
(Not offered 1927-28.)

57. Advanced Grammar and Composition.

3 hrs.

(a) Introduction to Germanic Philology (two hours).

(b) Der deutsche Aufsatz (one hour).

GERMAN

Honours Courses.

- 101. Germanic Philology.** 2 hrs.
Middle High German, Historical German; Paul's *Mittelhochdeutsche Grammatik*.
Prerequisite: German 57.
- 102. German Literature.** 1 hr.
Study in a special field. Discussion, reports, thesis.
Prerequisites: German 54, 57, and one of 55, 56.
- 103. Old High German.** 1 hr.
Prerequisite: German 57.
- 104. Study in Some Early Period of German Literature.** 2 hrs.
Prerequisite: As for 102.

Graduate Courses.

Graduate students desiring courses in German should consult the head of the department.

Comparative Literature

- *51. Comparative Literature.** 3 hrs.

A comparative study of the masterpieces of continental European literature from the fall of the Roman Empire to the rise of the Napoleonic Empire.

The purpose of the course is to trace the evolution of modern European culture in the interplay of literary ideals and forms. The course is intended more especially for those senior students who are not prepared to read the masterpieces of French, German, Italian and Spanish literature in the originals. These will be read and analysed in English renderings and will include the following: The *Chanson de Roland*, The *Nibelungenlied*, *Edda* (Selections); Dante, *Divina Commedia* (selections); Cervantes *Don Quixote*; Calderon, *La Vida as Sueno*, *The Mayor of Zalamea*; Racine, *Andromaque*; Molière, *Tartuffe*, *Le Misanthrope*; Corneille, *Le Cid*; Selections from: Montaigne, Rousseau, Voltaire, Diderot; Lessing, *Nathan der Weise*; Schiller, *Wallenstein*; Goethe, *Faust*.

See Department of General Literature, page 171.

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DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

51. Obstetrics and Gynaecology.

2 hrs. sec. half, fourth year.

A preliminary course in the mechanism of labour with demonstrations on the mannikin.

52. Obstetrics and Gynaecology. 1 hr. lect., 3 hrs. clinic.

This course will be given to fifth year Medical students and will consist of preliminary instruction, including lectures (illustrated), demonstrations and clinical instruction in the hospital.

53. Obstetrics and Gynaecology. 1 hr. lect., 5 hrs. clinic.

Practical clinical work in the wards of the hospital. Theatre clinics and ward clinics. Individual instruction in the management of labour and care of the puerperal patient. Out-patient work and a short course of clinical lectures at the hospital.

DEPARTMENT OF PATHOLOGY

51. General Pathology. 4 hrs. lect., 2 hrs. lab. first half.
2 hrs. lect., 4 hrs. lab. sec. half.

A series of lectures on General Pathology.
Laboratory instruction in Pathologic Histology.

52. Clinical Microscopy. 2 hrs. lab. first half.

Routine microscopic examination for diagnosis of urine, sputum, blood, stomach contents, faeces, cerebrospinal fluid, exudates.

53. Special Pathology. 2 hrs. lect., 2 hrs. lab., session.

A series of lectures on the pathological changes in the special organs and tissues with concurrent laboratory demonstrations of gross and microscopic pathological material. Attendance at autopsies.

54. Clinical Laboratory. 4 hrs. lab., session.

The performance, under supervision, of the various clinical laboratory examinations indicated in hospital cases allotted to students.

PHARMACY

55. Clinico-Pathological Conference. 2 hrs. session.

Demonstrations of current pathological material in conjunction with clinical departments.

56. Dental Pathology. 1 hr. lect.

A lecture course on diseases of the oral cavity and procedure in their treatment.

51. Medical Jurisprudence and Toxicology. 1 hr. lect., session.

A lecture course dealing with the criminal and civil aspect of legal medicine and with the action of poisons. Post mortem appearances will be illustrated by specimens, etc.

DEPARTMENT OF PHARMACY

Junior Courses.

1. General and Galenical Pharmacy. 3 hrs. lect.

History and literature; metrology; operation and appliances; preparations, plant constituents.

2. Prescriptions and Dispensing. 1 hr. lect.

3. (a) Prescriptions and Dispensing (for Students in Medicine). 1 hr. first half.

(b) Practical Pharmacy (for Students in Medicine). 1 hr. sec. half.

4. Practical Pharmacy. 6 hrs. lab.

Concurrent with Pharmacy 1 and 2; general technique; the manufacture of galenicals; typical alkaloidal extractions and assays; dispensing of prescriptions.

5. Drugs and Solutions. 1 hr. lect.

An elementary course in Pharmacy for nurses in training at the hospital.

Senior Courses.

51. General and Galenical. 3 hrs. lect.

52. Prescriptions and Dispensing. 1 hr. lect.

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54. Practical Pharmacy. 6 hrs. lab.

55. Advanced Practical Pharmacy. 6 hrs. lab.

Chemical methods of identification; determination of purity; analysis and synthesis of medicinal substances. Text-books: British Pharmacopoeia, London College, *Essentials of Pharmacy*; Heebner's *Synopsis*.

Supplementary: Ruddiman's *Incompatibles in Prescriptions*; Arny's *Principles of Pharmacy*; Lucas' *Practical Pharmacy*; Scoville's *The Art of Compounding*; Martindale's *Extra Pharmacopoeia*; Squire's *Companion to the B.P.*

DEPARTMENT OF PHILOSOPHY

Junior Courses.

1. Psychology and Logic. 3 hrs.

An introduction to general and experimental psychology and logic. This course is intended to serve as an introduction to advanced psychology and to education. It will involve the following:

- (a) A study of the evolution of consciousness in relation to the evolution of the nervous system.
 - (b) An analysis of sensation, perception, imagination, memory, the instincts, the emotions, the sentiments, the unconscious, volition, reasoning, etc.
 - (c) The application of psychological and logical methods to the study of the learning processes.
- (Not offered 1927-28.)

2. Introduction to General and Social Psychology. 3 hrs.

The course will include: (a) a general study of the nervous system; (b) a study of the principal phenomena of mental development and an analysis of the special mental functions, sensation, perception, imagination, memory, etc.; (c) the study of the instincts, innate tendencies, emotions, sentiments, etc.; (d) the principal phenomena of collective behaviour; (e) the origin of language, the myth, custom, morality, law and religion.

PHILOSOPHY

Philosophy

Senior Courses.

51. History of Philosophy. 3 hrs.

The history of thought from the ancients to the present time. In this course special attention will be given to those philosophical and scientific theories which have been most closely related to social, ethical and educational problems.

52. English Philosophy. 3 hrs.

Modern and Contemporary English Philosophy.
(Not offered 1927-28.)

53. Contemporary Philosophy.

An introduction to the problems of Contemporary Philosophy.

The course will begin with a brief history of the conflict between Naturalism and Idealism which will serve as an introduction to the discussion of the present-day tendencies in Naturalism, Idealism, Animism, Vitalism, Pragmatism, Pluralism, Realism and Evolutionism.

54. Ethics and Social Morality.

This course will involve:

1. The history of Ethics.
2. The theory of ethical value.
3. Ethics in its relation to Science, Morals, Art and Religion.
4. The evolution of morals.
5. A discussion of the ethical aspects of some of the most important social problems of the present day, e.g., the problems of rural life, immigration, education, mental deficiency, the professions, politics, etc.

55. Philosophy and Evolution. 3 hrs.

- (1) An historical study of the theories of evolution.
- (2) The relation of evolution to psychology, social anthropology, ethics and education.
- (3) Evolution in relation to Vitalism and Idealism.

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- (4) Contemporary speculative theories of evolution, e.g., Creative Evolution, Emergent Evolution, Evolutionary Naturalism.
(Not offered 1927-28.)

Honours Courses.

Candidates for honours will arrange their course in consultation with the Head of the Department.

101. Greek Philosophy.

102. Modern Philosophy.

103-107.

One of the following: Logic, Ethics, Aesthetics, Metaphysics, the Philosophy of Religion.

108. History of Philosophical and Scientific Thought.

Graduate Courses.

Candidates for the degree of M.A. may pursue any of the above Senior or Honours Courses not already taken in their undergraduate work.

Psychology

Senior Courses.

51. General and Experimental Psychology. 3 hrs.

The course will involve: (a) a brief history of Psychology. The historical outline will aim at furnishing a basis for the understanding of the principal present-day movements in Psychology. (b) A brief study of the general principles of mental development in their relation to the development of the nervous system. (c) Application of experimental methods to the study of sensation, perception, imagination, memory, etc. (d) The experimental investigation of the learning process.
Prerequisite: Philosophy 1 or 2.

52. Social Psychology and Social Anthropology. 3 hrs.

The course will include: (a) a detailed study of social influences in their relation to the development of personality; (b) a critical study of anthropological data

PSYCHOLOGY

regarding the origin of language, myth, custom, morality, law, art, and religion.

Prerequisite: Philosophy 1 or 2.

54. Industrial Psychology. 3 hrs.

A study of the facts of normal and abnormal psychology and their application to the problems of industry. Some of the subjects to be discussed are: instincts in industry; the causes, nature and significance of individual differences; the influence of environmental factors on efficiency; work, fatigue and mental hygiene; the vocational selection of employees, with a study of the history, theory and practice of mental measurements; the psychology of scientific management; advertising and salesmanship.

(Not offered 1927-28.)

55. Educational Psychology. 3 hrs.

Consists of lectures, discussions and experimental work. A thorough study is made of: (a) the learning process with particular attention to classroom procedures; (b) individual differences, their causes, extent and methods of measurement; students will be trained in making individual and group psychometric investigations; (c) the psychology of the common branches together with a study of the more important educational tests and scales; (d) elementary statistics.

56. Legal Psychology. 3 hrs.

A study of normal and abnormal mental processes in relation to problems of judicial procedure. Some of the special problems to be discussed are: motivation of crime; the psychology of evidence, with special attention to the sources of incorrect testimony; psychological agents of use in the discovery of guilt; mental deficiency and insanity, and their relation to legal responsibility; individualization of punishment; prevention and correction of crime. Principles will be illustrated by case and statistical studies. (Open to students in Faculty of Law or in combined Arts and Law.)

Medical Psychology

These courses are designed solely for students in the Faculty of Medicine.

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60. Introduction to Normal and Abnormal Psychology.

2 hrs. sec. half third year Medicine and fifth year Dentistry.

A study of normal and abnormal behaviour of the human mind; innate forms of behaviour, their modification by cognitive, affective and conative experiences, acquired forms of behaviour and the abnormalities which arise in each field.

61. Psychopathology.

1 hr. fourth year.

The mental factors at work in the causation and treatment of psychological disorders. A critical study is made of the theories of the "unconscious," and of the mechanisms involved. Methods of mental therapy.

62. Psychopathology.

1 hr. first half, fifth year.

The course will involve: (a) a more advanced study of abnormal psychology and a critical examination of current theories; (b) a general summing up of the practical implications of abnormal psychology.

It is desirable that students who intend to proceed to Psychology 54 and Psychology 56 take Philosophy 1 or 2 in the second year.

Honours Courses.

Candidates for honours will arrange their course in consultation with the Head of the Department.

101. Physiological Psychology. 3 hrs.

102. Abnormal Psychology. 3 hrs.

103. The Psychology of Religion. 3 hrs.

104. General and Experimental Psychology, Advanced Course. 3 hrs.

This course will involve a more advanced study of the facts of mental development. Present-day movements in Psychology will be examined and attention will be paid to current discussions. Experimental methods will be applied to the study of special problems. This part

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of the course will aim, generally, at a thorough training in the technique of psychological experiment.

Prerequisite: Psychology 51.

105. Educational Psychology, Advanced Course. 3 hrs.

Consists of lectures, discussions and experimental work. The following topics indicate the scope of the course: (a) the psychology of special school subjects; (b) the theory of educational measurement, the principles of objective measurement, critical study of tests, test construction; (c) mental deficiency; (d) special abilities and disabilities; (e) diagnostic and corrective measures in special school subjects; (f) mental and educational surveys, and their use in classification, promotion, educational guidance.

Prerequisites: Psychology 51 and Psychology 55.

Graduate Courses.

Candidates for the M.A. degree may elect any of the above Senior or Honours courses not already taken as undergraduate work.

Education

53. Modern Educational Systems and Problems. 3 hrs.

A comparative study of systems of educational organization and administration in some of the leading countries of the world. Some of the specific problems to be discussed from this point of view are: Devolution of authority; aims and objectives of education; types of schools; curricula; teacher-training; classification and promotion of pupils; methods of supervision; educational finance; educational hygiene. An endeavour is made to familiarize the student with current tendencies in educational theory and practice. This knowledge is applied to the solution of some of Canada's educational problems.

(Not offered 1927-28.)

54. History and Philosophy of Education. 3 hrs.

An examination of the philosophic basis and meaning of education will be approached through a critical study

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of the great educational writers. The historical study will aim to throw light on the following topics:

- (a) The end of education; different historical versions of the end; proximate ends; the ultimate end.
 - (b) The philosophic significance of the human values (Science, Art, Morality, etc.).
 - (c) The process of education:
 - (1) Logical and psychological aspects.
 - (2) Educative institutions: the school, the church, the family, voluntary associations, e.g., economic, professional, trade, cultural.
- (Not offered 1927-28.)

55. The Supervision of Instruction in the Elementary Grades.

The physical growth of children, including an analysis of the general growth of the body, the development of the brain and the relation of nutrition to growth.

The mental growth of children, including instinctive tendencies, growth in general intelligence, growth in specific capacities, development of language, drawing and play tendencies.

The supervision of Composition, Reading and Arithmetic. Summarizing results of scientific studies of these elementary school subjects. The Alberta Course of Studies for the elementary grades will be studied in detail.

The class will do research work in one subject, each student taking an investigation within the field chosen.

DEPARTMENT OF PHYSICS

Junior Courses.

1. General Elementary Physics. 3 hrs. lect., 2 hrs. lab.

Including the more important principles of mechanics, properties of matter, heat, sound, light, magnetism and electricity. Illustrated by experiments.

Text-book: Stead, *Elementary Physics*.

For first year Arts and Sciences, Household Economics and Agriculture.

PHYSICS

11. General Elementary Physics. 3 hrs. lect., 2 hrs. lab.

The same range as in Course 1, but with special emphasis on the medical aspects of the subject.

Text-book: Stead, *Elementary Physics*.

For students of first year Medicine, Dentistry and Pharmacy.

3. (a) Properties of Matter, Molecular Mechanics, and Heat. 3 hrs. lect., 2 hrs. lab. first half.

(b) Sound and Light. 3 hrs. lect., 2 hrs. lab. sec. half.

Illustrated by experiments.

Text-books: Duncan & Starling, *Text-book of Physics*; Allan & Moore, *Text-book of Practical Physics*.

For second year Engineering Students, and certain second year, or well prepared first year students of Arts and Sciences.

6. Magnetism and Electricity. 3 hrs. lect., 2 hrs. lab.

A course prerequisite to more advanced courses in electrical physics and in electrical engineering. Illustrated by experiments. For third year Engineering students and second year students of Arts and Sciences who have passed Physics 1 or its equivalent.

Text-books: Brooks & Poyzer, *Magnetism and Electricity*; Allan and Moore, *Text-book of Practical Physics*.

8. General Physics. 3 hrs. lect., 2 hrs. lab.

Phenomena of Physics explicable on the molecular theory; elementary modern electrical aspects of molecular theory in Physics and in Chemistry.

Illustrated by experiments.

For second year students of Arts and Sciences who have passed Physics 1 or its equivalent.

Text-book: Crowther, *Molecular Physics*.

12 Optics and Radiation. 3 hrs. lect., 2 hrs. lab.

More advanced than the same subjects in Courses 1 and 3 (b), and introductory to the work of senior and honours classes. Illustrated by experiments. For second year students of Arts and Sciences who have passed Physics 1 or its equivalent.

Text-book: Edser's *Light for Students*.

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Senior Courses.

Physics 6, 8 and 12 may be taken as ordinary senior courses, but not for honours in Physics.

51. Physical Optics. 3 hrs. lect., 3 hrs. lab.

A course on wave theory, dealing especially with interference, diffraction, polarisation, double refraction, spectroscopy, the Zeeman effect.

Reference books: Houston, *Treatise on Light*; Preston, *Theory of Light*; Wood, *Physical Optics*.

53. Electrical Physics. 2 hrs. lect., 3 hrs. lab.

Direct and alternating current circuits, electrical and magnetic testing, precision electrical measurements, electric units and their dimensions.

Text-book: Starling, *Electricity and Magnetism*.

54. Introduction to the Electron Theory. 3 hrs. lect.

This course deals with the following topics, passage of electricity through gases, ionisation by collision, cathode rays, X-rays, photo-electricity, thermions, radio-activity, electro-magnetic mass, positive ray analysis, isotopes, modern views of atomic structure.

For senior students in Arts and Sciences.

Text-book: Ions, *Electrons, and Ionising Radiations*, Crowther.

Reference books: *The Electron*, Millikan; *Electricity in Gases*, Townsend; *Ionisation of Gases by Collisions*, Townsend; *X-rays and Crystal Structure*, Bragg; *Radio-activity*, Rutherford; *Studies in Radioactivity*, Bragg; *Photo-electricity*, Hughes; *X-Rays*, Kaye; *Rays of Positive Electricity*, Thomson; *Isotopes*, Aston.

55. Elements of Electron Theory. 3 hrs. lect., first half.

A course on modern electrical theory emphasising especially the nature and properties of ions in gases, ionisation by collision, sparking potentials, corona discharge, electrical conductivity of metals, and thermionic emission.

For fifth year students in Electrical Engineering.

Text-books: *Ions, Electrons, Ionising Radiations*, Crowther; *Electrical Transmission of Energy*, Thornton.

PHYSIOLOGY AND PHARMACOLOGY

57. Introduction to Mathematical Physics. 3 hrs. lect.

Theory of attraction and potential as applied to gravitation, magnetism and electrostatics; elements of hydrodynamics; Fourier's series; the conduction of heat; wave theory; and the elements of theoretical thermodynamics.

Text-book: *Introduction to Mathematical Physics*, Houston.

Reference books: *Newtonian Potential Function*, Pierce; *Mathematical Theory of Heat Conduction*, Ingersoll and Zobel; *Theory of Heat*, Preston; *Electricity and Magnetism*, Jeans.

Honours Courses.

Honours courses may be chosen from the senior courses by arrangement with the department.

101. Modern Atomic Physics Theory. 3 hrs. lect., 6 hrs. lab.

DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY

31. 2 hrs. lect., 2 hrs. lab.

In this course, which extends through sixteen weeks, the essentials of physiology are studied by means of lectures, demonstrations and practical work. It is designed to meet the needs of those who are taking the course in Nursing leading to the Diploma.

41. 3 hrs. lect., 3 hrs. lab.

The same as Physiology 71.

For students who are taking the course in Nursing leading to the degree of B.Sc.

51. 3 hrs. lect., 3 hrs. lab.

The same as Physiology 71.

For students of the third year in Dentistry.

52. 3 hrs. lect., first half.

A lecture course on the central nervous system.

For students of the fourth year in Dentistry.

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60. ... 3 hrs. lect.

A lecture course on the physiology of the blood, circulation, digestion, absorption, assimilation, excretion, respiration and animal heat.

For students of Household Economics.

61. 3 hrs. lect., 3 hrs. lab.

The same as Physiology 71.

Open to students of the senior years in Arts and Sciences.

Prerequisites: Chemistry 1 and Chemistry 52.

62. 3 hrs. lect., 3 hrs. lab.

The same as Physiology 72.

For students who are taking Honours in Psychology.

71. 3 hrs. lect., 3 hrs. lab.

This course comprises a detailed study of the physiological phenomena of the blood, circulation, digestion, absorption, assimilation, excretion, respiration and animal heat.

For students of the third year in Medicine.

72. 3 hrs. lect., 3 hrs. lab.

The study of the central nervous system, muscle, nerve, special senses, secretion (external and internal), Reproduction and heredity constitutes this course.

For students of the fourth year in Medicine.

73. 1 hr. clinic, half year.

A clinical course in Physiology given in conjunction with Medicine and Clinical Medicine 53.

For students of the sixth year in Medicine.

Text-books for all courses: Starling, Burton-Opitz, Stewart, Halliburton, Howell.

Reference books: Luciani, *Human Physiology*; Macleod, *Physiology and Biochemistry in Modern Medicine*; Wiggers, *The Circulation in Health and Disease*; Sherrington, *The Integrative Action of the Nervous System*; Gaskell, *The Involuntary Nervous System*.

POLITICAL ECONOMY

Pharmacology

70. 3 hrs. lab.

A laboratory course supplemented by laboratory talks and conferences. This course is co-ordinated with *Materia Medica* 4.

For students of the fourth year in Dentistry.

72. 2 hrs. lect., 3 hrs. lab.

A course on the physiological action of drugs selected for their pharmacological and clinical importance.

For students of the fourth year in Medicine.

Text-books for both courses: Sollman, *A Manual of Pharmacology*; Bastedo, *Materia Medica, Pharmacology and Therapeutics*.

Reference books: Sollman, *A Laboratory Guide in Pharmacology*; Jackson, *Experimental Pharmacology*; Cushny, *Pharmacology and Therapeutics*.

Research

The laboratory is always open to those who are qualified to undertake investigations in the domain of physiology and pharmacology. For particulars apply to the head of the department.

DEPARTMENT OF POLITICAL ECONOMY

1. Principles of Economics. 3 hrs.

A general introduction to the study of Political Economy. In this course there will be two lectures a week and the class will be divided into quiz groups for the third hour.

10. Economic Geography. 3 hrs. sec. half.

A study of production and trade as influenced by geographic conditions. The geography of the more important commercial products; continental and oceanic trade routes; great commercial centres.

Text-book: Whitbeck and Finch, *Economic Geography*.

Senior Courses.

51. Principles of Political Economy. 3 hrs.

A survey of leading principles with special reference to engineering problems. Open only to students in Applied Science.

UNIVERSITY OF ALBERTA

52. Institutional Management and Social Economics. 2 hrs.

A survey of the principles of institutional management followed by a study of the economics of social problems. Open to students in Nursing.
(Not offered 1927-28.)

63. Political Science. 3 hrs.

The origin, function, and organization of the state. Relation of law to social progress. Composition and function of modern political parties and other electoral groups.
(Not offered 1927-28.)

***64. Trade and Transportation. 3 hrs.**

- (a) International Trade, economic protectionism, the evolution of commercial policies, tariffs.
- (b) The principles of transportation with special reference to Canadian problems.

Prerequisite: Course 1, 51 or 70.

65. Labor and Industrial Problems. 3 hrs.

The genesis of labor problems, the wage system, labor legislation, unemployment, agencies of industrial peace, scientific management, unionism, syndicalism.
Prerequisite: Course 1, 51 or 70.

66. Currency, Banking and Finance. 3 hrs.

The principles of money, monetary systems, commercial and investment banking, finance, rural credits.
Prerequisite: Course 1, 51 or 70.
(Not offered 1927-28.)

67. Public Finance and Taxation. 3 hrs.

Public expenditures, budgets, and budgetary legislation, public domains and public industries, taxation, public credit, provincial and local taxation.
Prerequisite: Course 1, 51 or 70.

68. Economics of Agriculture. 3 hrs.

The rôle of agriculture in economic life. A survey of the resources, the organization and the economic problems of agriculture.
Prerequisite: Course 1 or 51.
(Not offered 1927-28.)

POLITICAL ECONOMY

69. Corporation Finance. 2 hrs. sec. half.

The nature of corporations, their promotion, capitalization, financing, reorganization; holding companies; franchises; the taxation of corporations.
Prerequisite: Course 1, 51 or 70.

70. Elements of Political Economy. 2 hrs.

A general course with special emphasis upon agricultural problems.
Open only to students registered in the Faculty of Agriculture.

72. Agricultural Marketing. 2 hrs.

Economic basis of marketing and price determination; assembling, grading, standardizing, processing, storing of farm products, financing crop movements; speculation, transportation routes and rates; co-operative marketing and pools; government authority in relation to marketing.
Prerequisite: Course 70.

73. Principles of Marketing. 3 hrs. first half.

Functions and mechanisms of marketing; primary markets, manufacturers, wholesale and retail agencies; organization and financing of export trade; co-operative marketing; price determination and policy.

Honours and Graduate Courses.

101. History of Economic Theory. 3 hrs.

From the Mercantilists to the end of the 19th century.

102. Modern Economic Theories. 3 hrs.

A critical examination of modern economic thought.
(Not offered 1927-28.)

103. Economic Programmes.

A continuation of Political Economy 102, with special reference to particular problems.

120-130.

Special graduate courses which may be arranged in consultation with the head of the department.

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DEPARTMENT OF SOILS

Senior Courses.

51. Soil Physics and Management.

2 hrs. lect., 4 hrs. lab., first half.

Origin of soil material; formation; classification, constituents, organic matter; moisture and its control; aeration; temperature; erosion; tillage of dry and irrigated lands; rotations.

Text-book: *Soil Physics and Management*, Moshier and Gustafson.

52. Soil Fertility and Fertilizers.

2 hrs. lect., 4 hrs. lab. sec. half.

Yields as affected by fertility, rotations and different systems of farming; composition and management of Canadian soils; composition and value of manures and fertilizers.

Text-book: *Soil Fertility and Permanent Agriculture*, Hopkins.

53. Advanced Fertility.

2 hrs. lect., 4 hrs. lab. first half.

Special work with soils in which the student is interested; pot culture experiments; systematic study of investigational work from various experiment stations.

54. Soil Bacteriology.

2 hrs. lect., 3 hrs. lab. sec. half.

Soil micro-organisms and factors influencing their activity; decomposition of crop residues and manures; nitrogen fixation and preservation; effect on insoluble plant foods.

55. Irrigation and Drainage.

2 hrs. lect. sec. half.

Character of water used for irrigation; time and amount of application; measurement and distribution; duty; removal of excess; control of alkali.

Graduate Courses.

130. Plant Food Supplies.

1 hr. lect.

Critical study of the world's plant food supplies.

SURGERY

131. Seminar in Soils.

1 hr. lect.

Reports by students and instructors on the literature of selected topics, with class discussions. Required of all graduate students in Soils.

Graduate students who have had the necessary training may take work leading to the degree of M.Sc. Graduate courses in Soils, related courses in other departments, and a research project in a field of work covered by the list of Soils courses may be selected in consultation with the student's adviser.

DEPARTMENT OF SURGERY AND CLINICAL SURGERY

51. Surgery and Clinical Surgery. 1 hr. lect., 7 hrs. clinic.

Principles of surgery; clinical instruction in inflammatory processes, sepsis, haemorrhage, hernia, surgical landmarks, history taking, wounds, fractures, bandaging.

52. Surgery and Clinical Surgery. 1 hr. lect., 6 hrs. clinic.

General surgery, including attendance at ward and other clinics, outdoor department, and operating room.

53. Surgery and Clinical Surgery. 1 hr. lect., 6 hrs. clinic.

During the final year, students will have the opportunity of acting as assistants to the internes of the hospital and will be expected to help in routine clinical laboratory work in the hospital, in writing histories and keeping up progress notes in careful detail, in routine ward-work, and in out-patient clinics. Special clinical lectures will be given during the session in the principles of general surgery, orthopaedics, genito-urinary surgery, radiology and dermatology. A clinical and pathological conference will be held once a week during the session.

Text-books: *Surgery*, Rose and Carless, Thomson and Miles; *Keen's Surgery*; *Surface Anatomy*, Treves and Keith; *Davis, Applied Anatomy*; *Minor Surgery*, Foote; *Operative Surgery*, Binnie; *Operations*, Jacobson; *Surgery*, Farmer and Rowland.

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54. Surgery. 1 hr. lect.

A lecture course the same as in Course 51.
Clinical instruction as required for dental students.

51. Ophthalmology. 1 hr. lect.

A preliminary course consisting of lectures and demonstrations with instruction in the use of instruments and appliances, and out-door clinics.

51. Rhino-Oto-Laryngology. 1 hr. lect.

A preliminary course consisting of lectures and demonstrations with instruction in the use of instruments and appliances, and out-door clinics.

52. Ophthalmology. 1 hr. first half.

Clinical work in the hospital.

52. Rhino-Oto-Laryngology. 1 hr. sec. half.

Clinical work at the hospital.

Text-books: *Ophthalmology*, May; reference, de Schweinitz, Fuchs. *Rhino-Oto-Laryngology*, Laurens, Parker and Colledge; reference, Tilly, MacKenzie.

51. Radiology. 1 hr. lect. first half.

Lectures on physics and technique of Radiology. Laboratory demonstrations on Flulroscopic examinations of patients, and interpretation of Radiograms.

55. Surgical Anatomy. 2 hrs. lect.

Will include, with lectures upon surgical and topographical anatomy, demonstrations by means of dissections and moist specimens, and when applicable the exhibition of anatomical abnormalities in the living.

56. Surgical Anatomy. 1 hr. lect.

A continuation of lectures and demonstrations of Course 55.

ZOOLOGY

TOXICOLOGY

Junior Course.

1. General. 1 hr. sec. half.

The nature and properties of poisons, their detection, and the application of "first aid" treatment.

Senior Course.

61. General. 1 hr. sec. half.

Identical with Course 1.

DEPARTMENT OF VETERINARY SCIENCE

Junior Courses.

1. (a) Elementary Agricultural Veterinary Science. 1 hr. lect.

Anatomy, physiology, materia medica.

- (b) Agricultural Veterinary Science. 1 hr. lect.

Medicine and surgery, parasitology, obstetrics.

Senior Course.

51. Advanced Agricultural Veterinary Science.

DEPARTMENT OF ZOOLOGY

Junior Course.

1. General Elementary Zoology (Arts). 3 hrs. lect., 3 hrs. lab.

Vertebrate and invertebrate types; histology; heredity; variation and evolution.

Text-books: Borradaile, *Manual*, Shipley and McBride, Marshall and Hurst, Gilchrist and von Bonde.

Reference: Parker and Haswell, Holmes.

2. General Elementary Zoology (Medicine). 3 hrs. lect., 3 hrs. lab.

Frog, rabbit, and other types; dog's skull, cat's brain, hog's heart; parasitology; histology; heredity, variation and evolution.

Text-book: O'Donoghue, 2nd ed.

Reference: Parker and Haswell, Holmes.

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3. Elementary Embryology (Second Year Medicine).

2 hrs. lect., 3 hrs. lab. first half.

Embryology of amphioxus, frog and chick to 48 hours; other selected types.

Text-books: Kellicott's *Chordate Development* and *General Embryology*, or McEwen's *Vertebrate Embryology*; Patten.

Reference: Lillie, Wilder.

4.

3 hrs. lect., 3 hrs. lab. sec. half.

Elementary comparative anatomy (Agriculture).

Parasitic invertebrates; *Hydra*; earthworm; comparative vertebrate anatomy with special reference to mammals.

Text-book: Shipley and MacBride, *Zoology*.

Reference: Borradaile; Parker and Haswell.

DEPARTMENT OF EXTENSION

This department is organized to help those unable to attend regular University classes, and carries on work along the following lines:

Extension Lectures

A limited number of extension lectures on various subjects may be arranged in conference with the Director of the Department of Extension.

Division of Debating and Public Discussion

Outlines are published for the assistance of debaters, and material on subjects of debates is lent by the University. This material is available to all residents of Alberta free of charge. To applicants from points outside of the Province a charge of fifty cents is made for each package lent.

Material for debate has been prepared on the following subjects: Canadian Navy; Capital Punishment; Closed versus Open Shop; Co-education; Commission Government of Cities; Compulsory Military Service in Canada; Compulsory Military Training in Canada; Compulsory Social Insurance; Consolidated Rural Schools; Co-operative Banking; Co-operative Trading; Direct Legislation; Educational Qualification for Suffrage; Gary School Plan; Government Ownership of Rail-

DEPARTMENT OF EXTENSION

roads; Heredity versus Environment; Imperial Federation League of Nations; Literary Test for Immigrants; Military Training in Schools; Minimum Wage; Monroe Doctrine; Mothers' Pensions; Motion Pictures in Education, Place of; Municipal Ownership of Public Utilities; Parliamentary versus Presidential Form of Government; Peace versus War; Platform versus Press; Prohibition; Proportional Representation; Protection versus Free Trade; Public Defender; Reciprocity with the United States; Rural versus City Life; Simplified Spelling; Single Tax; Socialism; Tractor versus Horse; Trade Unions; Woman Suffrage; Canadian Tariff; School Curriculum; Limitation of Inheritance; Free Municipal Hospitals; National School System; Control of Natural Resources; Motion Pictures; Chinese and Japanese Immigration; Labor Strikes; Newspapers; Novel Reading; Vocational versus Liberal Education; Departmental Store (Mail Order Business); Smoking; Co-operative Laundries and Kitchens; Agricultural Immigration; Coal versus Gas; Local Banks versus Branch Banks; Provincial Bank; National Land Bank; Construction Great Lakes-St. Lawrence Ship Canal; Completion of Hudson Bay Railway; Export Duty on Pulpwood; Diplomatic Representative from Canada to Washington; Alberta Wheat Pool; Automobiles; Radio versus Newspapers; School Examinations.

A manual of instruction for debaters is also available.

In connection with this division, a High School Debating League is organized year by year. Each year a large number of the high schools of the province have entered the league.

Division of Travelling Libraries

Travelling libraries are lent to communities where no public libraries exist. For this purpose over 19,000 volumes are at present available. During the present session over two hundred libraries have been in circulation. A special feature of this service is the open shelf list from which students may borrow individual volumes. A printed catalogue is supplied to would-be borrowers for twenty-five cents.

The Department also offers assistance to those who wish to do systematic reading in a particular field, literature, science, history, politics, sociology, etc. With the help of the members of the University Faculty, outlines on the desired subject will

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be prepared and reference books will be furnished from the open shelf library.

Division of Visual Instruction

This division offers:

A.—Lantern Slide Service. The Department has a lantern slide library of four hundred sets of lantern slides, to which additions are continually being made, accompanied by printed or typewritten lectures. Payment of express charges and the making good of loss or breakage is the only expense for this service. A list of lantern slide sets may be had on application. Lecturers and others may also have lantern slides specially prepared in the lantern slide laboratory of the Department, from their own material in the form of photographs, text-book illustrations, etc., at a very reasonable cost.

B.—Lantern Service. A number of lantern outfits are available for loaning at a nominal rental, equipped for use in both town and country. New lanterns are supplied to schools, churches and other organizations on very satisfactory terms.

C.—Moving Picture Service. The system of moving pictures adopted and recommended by the Department of Extension is the Safety Standard utilizing a practically non-inflammable film, and consequently free from insurance and other restrictions. The projector recommended is the Victor Safety Cinema which can be used under varying conditions; with battery in the country and on electric circuit in the towns and cities. These machines are supplied by the Department at the lowest possible price and on very favourable terms. The film library now comprises some 1,200 reels which are available for loan on a rental basis sufficient to take care of handling and depreciation.

Division of Radio

For over two years the University of Alberta, through the Department of Extension, has been broadcasting information. During the past year each Monday evening has been devoted to a radio programme consisting of lectures as well as plays and music. It is proposed to continue this work throughout the coming year.

Full particulars of these services will be furnished on application to the Department of Extension, University of Alberta, Edmonton.

CORRESPONDENCE COURSES

INDUSTRIAL LABORATORIES

The Department of Industrial Laboratories operates fully equipped Chemical and Physical laboratories for carrying out analyses and tests on all materials. Industrial investigations can be undertaken.

For complete information and schedule of fees apply to the Director.

DEPARTMENT OF CORRESPONDENCE COURSES

The Correspondence Department offers instruction in the work of Grade XII as prescribed by the Alberta Department of Education. The object of the work is to enable teachers who hold Second Class Certificates to pursue further academic study in preparation for the Grade XII examination. The successful completion of this course, while giving the required academic standing for First Class Teachers' Certificate, will also give standing pro tanto for First Year University courses. These correspondence courses have proved particularly attractive to the following classes of teachers:

- (a) Those holding second class standing who desire to advance to first class;
- (b) Those who have obtained Grade XII standing with one or more conditions;
- (c) Those who are contemplating University courses and who by completing certain Grade XII courses will be eligible to enter as undergraduates of the Second Year in Arts;
- (d) Those who are matriculants and who contemplate entering a Faculty in which an option is given between Grade XII and First Year in Arts;
- (e) Those who, through securing Grade XII standing, are preparing to avail themselves of the advantages offered by University Summer School Courses leading to the Arts degree. (See page .)

Teachers who contemplate a University course, and who have not taken languages in the earlier High School grades, should endeavour to remove these deficiencies by taking Beginners' Courses at the Summer School, and following these up by Correspondence Courses covering the language requirements for Grades XI and XII. The Laboratory instruction given in Physics and Chemistry during the summer session

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will also be found exceedingly helpful, if not even essential, to those desirous of completing one or both of these subjects through correspondence tuition.

Prospective students are invited to write to the Director for particulars.

DEPARTMENT OF PHYSICAL EDUCATION

The aim of the department is to contribute to the health of the student body by encouraging participation in all forms of athletic games, and by conducting classes in physical training suited to the needs of the various groups of students.

Students entering the University with Junior Matriculation are required to take Physical Education 1 and 2, and students entering with Senior Matriculation are required to take Physical Education 2. All such students must register with the Department of Physical Education.

Students playing on athletic teams competing with outside organizations will be exempted from attendance at classes for the periods they are playing on such teams. Application for exemption must be made by the President of the Club or the Manager of the team. A certificate of satisfactory attendance at games and practices must be submitted before the close of the session.

All candidates for teams in athletic sports must submit to a medical examination to determine their physical fitness.

Course 1. 2 hrs. per week.

Physical education for first year students.

Course 2. 2 hrs. per week.

Physical education for second year students.

Affiliated Institutions

ST. STEPHEN'S COLLEGE

The Legislature of Alberta has passed legislation giving a Charter to St. Stephen's College, thus uniting Robertson College and Alberta College South, the theological institutions of the former Presbyterian and Methodist churches, respectively. St. Stephen's College is now the Divinity School of the United Church of Canada in the Province of Alberta.

Courses of Study

Three Courses of Study are open to Candidates:

1. "The attainment of a B.A. degree, including Greek, to be followed by three years in the study of Theology, is strongly recommended by the Church. Before ordination every candidate shall spend twelve months in preaching and pastoral work."

or

2. "Three years, at least, in Arts, followed by three years in Theology. Before ordination every candidate shall spend twelve months in preaching and pastoral work."

or

3. "Two years' preaching under the supervision of a Presbytery, with appropriate studies, and four years of a mixed Arts and Theological course in College."

Note.—All courses must start from University Matriculation.

Suggested Classes in Arts for Students Selecting Course No. 2

- (a) English Language and Literature (3 years).
- (b) Two languages, one of which must be Greek (2 years in each).
- (c) Philosophy, including Psychology, Logic and Ethics (2 years).
- (d) Two other subjects from the Arts curriculum, at the option of the student (1 year in each).

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Compulsory Classes for Students Selecting Course No. 3

- (a) While under supervision of Presbytery, and engaged in preaching for two years:

English Bible; New Testament in Greek; Elements of Theology—Life of Christ; History of Missions; English Literature; Practical Training, including preparation of sermons.

- (b) Four years of mixed Arts and Theological Course in College.

The Arts Course.—English Language and Literature; Philosophy, including Psychology; Logic and Ethics; one language; and any one option from the Arts Course.

Theological Course.—Homiletics; Pastoral Theology; Systematic Theology; New Testament Languages and Literature; Old Testament Literature; (English Bible); Church History; Christian Ethics and Sociology.

By an arrangement with the University Senate, courses in Biblical Literature are given which are open to students of the University, and count for credit on the Arts Course.

Residence

St. Stephen's College has a building capable of housing over one hundred students, located on the University grounds in a favourable relation to the University.

ST. AIDAN'S COLLEGE

This college, operating under the authority of the Synod of the Anglican Diocese of Edmonton, was affiliated with the University of Alberta by resolution of the Senate, May 15, 1919.

Information regarding courses may be obtained on application to the Warden, the Right Reverend Henry Allen Gray, M.A., D.D., LL.D., Bishop of Edmonton.

ST. JOSEPH'S COLLEGE

This college, established under the authority of the Roman Catholic Church, was affiliated with the University of Alberta by resolution of the Senate, May 13th, 1926. Co-operating with the University, the college offers instruction in certain

AFFILIATED PREPARATORY SCHOOLS

departments of the Faculty of Arts and Sciences. Buildings to house the college have recently been constructed on the University campus. Classes will be opened in the autumn of 1927. Information may be obtained on application to the Rector, the Reverend Brother Rogatian, Edmonton.

THE PROVINCIAL INSTITUTE OF TECHNOLOGY AND ART

This institution operating in Calgary under the authority of the Department of Education was affiliated with the University of Alberta by resolution of the Senate, May 13th, 1926. Information regarding courses may be obtained on application to the Principal, Dr. W. G. Carpenter.

AFFILIATED PREPARATORY SCHOOLS

Under the regulations of the Senate, preparatory schools and colleges which send students to the University Matriculation Examinations are affiliated with the University.

Under this arrangement the following are affiliated institutions:

Mount Royal College, Calgary.

Alberta College (North), Edmonton.

Llanarthney School for Girls, Edmonton.

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CANADIAN OFFICERS TRAINING CORPS

University of Alberta Contingent

The Canadian Officers Training Corps consists of Contingents at most of the Canadian Universities. Each Contingent is a unit of the Active Militia, being governed by special regulations under which it cannot be called out for active service as a unit. The Contingent is not officially a part of the University, but the President of the Military Committee and the senior officers of the Corps must be members of the University staff.

The Corps provides an opportunity for those students who are interested in military training to qualify as officers during their University course. Two certificates of Proficiency, "A" and "B", are obtainable by members of the Corps. The standard required for certificate "A" is that of the commander of a platoon in an infantry company. To obtain this certificate, a member must complete two years efficient service in the Corps and pass the prescribed examinations. Members who accept a commission in the Active Militia are exempted by this certificate from further examination for the rank of lieutenant. Certificate "A" is prerequisite to Certificate "B", which in a similar manner qualifies for the rank of Captain.

The time required is about three hours per week. Enlistment is purely voluntary, but the membership of the Contingent is limited.

Register of Students

SESSION 1926-27

A—Faculty of Arts and Sciences; Ag—Agriculture; S—Faculty of Applied Science; Com—Commerce; Corr—Correspondence; D—Dentistry; Div—Divinity; H.Ec.—Household Economics; L—Law; M—Medicine; N—Nursing; Phm.D.—Pharmacy Degree; Phm.L.—Pharmacy Licence; SS.—Summer Session.

c—conditioned student; p—partial student; s—special student; grad—graduate student. The numbers refer to the year of the course.

Abramson, I. A.	c S 3	Bosmans, S. E.	Com 3
Acheson, H. R. M.	S 3	Baker, L. K.	M 2
Adair, P. F.	Corr	Baker, M. L.	Corr
Adam, Miss B. M.	A 4	Baldwin, A. V.	M 4
Adam, J. D.	L 3	Baldwin, C. O.	S 3
Adams, J. D.	c S 1	Ballard, Miss J. R.	A 2
Adams, Miss J. C.	Corr	Banks, B. W.	M 3
Agnew, T. J.	M 5	Banville, O. G.	Phm.L. 2
Ahrens, A. C.	D 5	Barnett, B. J.	A & M 4
Ainsworth, H.	S 3	Baycroft, A. E.	A 3
Aitken, H. D.	c Com 1	Baycroft, A. E.	SS
Alexander, Miss F. E.	N 5	Bayne, J. W.	A & L 2
Alexander, Miss J. E.	A 2	Beach, Miss E.	N 3
Alexander, Miss M. A.	H Ec 2	Beach, H. H.	A & L 1
Alexander, N. E.	M 4	Bedford, R. H.	Ag grad
Alexander, R. P.	A 2	Begg, G.	A 4
Alford, Miss W. E.	N 1	Begg, H.	M 5
Allen, Miss J.	N 2	Begg, Miss N. M. G.	c H.Ec. 3
Allen, J. C. M.	Ag 3	Bell, Miss F. I.	A 4
Allin, E. S.	A & M 4	Bell, Miss M. W.	A 3
Allison, W. S.	M 2	de Belle-Isle, G.	S 2
Anderson, Mrs. E. M.	s A	Belliveau, U. J.	M 1
Anderson, J. A.	Ag grad	Bennett, Miss H.	Corr
Anderson, R. L.	M 6	Bennett, Miss H.	N 2
Annett, V. L.	M 4	Beny, Miss H.	A grad
Arbuckle, Miss K.	Corr	Beresford, E.	p A 3
Archer, Miss M. M.	c A & M 1	Beresford, T. F.	A 2
Archibald, W. S.	A & M 3	Bergsagel, K.	A grad
Argue, K. F.	c A 1	Bernard, Miss E. M.	Corr
Armitage, H. L.	Phm.L. 1	Best, E. L.	A grad
Armstrong, J. H.	S 5	Bibby, R.	S 3
Askin, T. H.	Ag 2	Billey, Miss R. I.	N 2
Atkinson, Miss T.	A 2	Bird, O. M.	A & M 3
Attewell, G. W.	Com 2	Bird, O. M.	SS
Auger, Miss A. D.	N 2	Black, Miss M. M.	Corr
Austin, Miss M. K.	A 4	Blackmore, J. H.	A grad
Austin, Miss M. K.	SS	Blaine, D. S.	Corr
Auxier, G. W.	A & L 4	Blair, T.	Phm.L. 2
Aylesworth, J. A.	SS	Bloor, W. G. K.	L 3
Aylsworth, Miss H. L.	H.Ec. 3	Bocock, J. B.	S 4
Baardseth, Mrs. E. E.	Phm.D. 3	Boettcher, H. J.	SS
Badcock, D. G.	SS	Bolton, Miss H. B.	Corr
Badner, J. F.	Corr	Bond, R. A.	c Com 1
Bagnall, Mrs. L. A.	A grad	Borden, Miss F.	A 4
Bainbridge, R.	A & S 2	Borrow, F. A.	Corr
Baker, Miss A. J.	N 1	Borrowman, A. M.	M 3
Baker, A. T.	p A 4	Bossenberry, Miss I. A.	A 4

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Bourque, P.	S 1	Cameron, Miss J. M.	SS
Bowden, S. T.	A 2	Cameron, T. S.	Corr
Bowker, E. E.	c Com 2	Campbell, A. D.	L 3
Bowker, W. F.	A & L 1	Campbell, Miss D. K.	N 2
Bowlen, Miss M. H.	c A 1	Campbell, H. L.	c A & L 1
Bowman, Miss K. M.	N 2	Campbell, J. A.	s A
Bowman, R. F. P.	S 4	Campbell, J. A.	M 4
Bowser, W. E.	Ag 1	Campbell, Miss H. J. J.	A 2
Boyce, A. C.	A & M 2	Capey, Miss M. E.	A 4
Boyd, R. W.	A & M 4	Carlisle, J. A.	PhmD 4
Boykowich, M. H.	D 4	Carlyle, R. H.	Ag 1
Boylan, J. H.	PhmL 2	Carlyle, W. T.	Ag 3
Boyle, F. H.	s Com	Carlson, C. E.	A 4
Boyle, Miss H. M.	A grad	Carmichael, Miss A.	Corr
Bradley, G. C.	M 5	Carnes, Miss M. H.	A & L 3
Bradley, G. C.	c D 1	Carruthers, Miss O. E.	N 2
Bradley, Miss L.	N 3	Carson, Miss F.	A 2
Brain, Miss K. F.	M 1	Carson, J. E.	D 2
Bramley-Moore, W.	M 2	Carver, C. E.	M 2
Bray, Miss A. M.	Corr	Carswell, Miss H. M.	p A 3
Brearely, G. G.	M 3	Caseley, Miss D. L.	s A
Briggs, R. A. W.	Corr	Caspar, J.	A 4
Bright, A. H.	L 3	Cassels, W. H.	M 5
Broath, A. L.	c A 1	Cautley, Miss E. M.	A 3
Broome, J. G. dE.	c A 1	Cautley, Miss H. E.	A 1
Brown, C. B.	A & M 4	Chalmers, Miss H. H.	A grad
Brown, G. H.	D 2	Chamberlain, Miss D. G.	PhmD 1
Brown, H. K.	D 2	Chambers, A. L.	A & M 4
Brown, Miss R. L.	H.Ec 3	Chappel, N. T.	A 4
Brown, R. J.	A & M 4	Chappelle, G. F.	M 5
Brownfield, C. J.	S 1	Chard, T. A.	Com 2
Brunsen, E. W.	Ag 3	Chittick, H. F.	A 1
Brunton, J. F.	M 5	Chritchley, H. F.	c Com 1
Brushett, W.	A 3	Cipperley, Miss M. G.	A 3
Bryan, W. C.	p PhmL 2	Cipperley, Miss M. G.	SS
Bryant, J. S.	c A 1	Clark, H. R.	c Ag 2
Bryden, D. C.	S 4	Clark, J. S.	A 2
Brynildsen, R. K.	M 2	Clark, R. V.	p A 3
Buck, H. H.	c A 1	Clarke, A. E.	Ag grad
Buk, N.	c S 2	Clarke, Miss M. M.	SS
Bullard, Miss E. G.	A grad	Claxton, H. G.	M 3
Bullock, G. F.	PhmL 2	Clegg, A. H.	Corr
Bullock, J. T.	SS	Clement, C. W.	A 3
Bulyea, Miss A. E.	N 1	Clements, Miss L.	N 3
Burgess, Miss E. E.	A 2	Cliffard, Miss E. J.	A 2
Burgess, Miss K. M.	A 3	Cockle, W. L.	M 4
Burgess, Miss K. M.	A 2	Coe, Miss D. K.	Corr
Buriak, M.	M 5	Cohen, T.	L 1
Burris, S. M.	M 2	Collier, E. C.	Corr
Burstein, J.	D 5	Collison, D. B.	A 1
Butler, Miss E. E.	A & M 2	Comfort, Miss A. M.	c A 1
Butler, Miss E. L.	A 4	Connors, Miss G. E.	H.Ec 2
Butler, J. M.	Com 1	Conquest, G. R.	A 4
Butterfield, M. R.	Corr	Cook, L. E.	c S 2
Byers, J. N. C.	M 3	Cook, W. H.	Ag grad
Byers, J. M.	A & M 1	Coone, Miss L. A. M.	p A 4
Cain, E. F.	M 4	Coone, Miss W. M.	A 4
Cairns, J. M.	L 3	Cooper, R. B.	c PhmL 1
Cairns, Miss M.	N 2	Cooper, W. S.	c Com 1
Calder, J.	M 3	Copeland, J. B.	SS
Calder, Miss M. E.	A 2	Cormack, J. S.	c A & L 2
Caldwell, Miss J. E.	A 3	Corneille, Miss E. A.	A & L 3
Caldwell, Miss M. E.	A 3	Corneille, Miss E. A.	SS
Caldwell, G. G.	Com 2	Cornell, Miss G.	Corr
Caldwell, Miss L. B.	c H.Ec 1	Cornwall, J. D.	A 3
Caley, J. F.	A 4	Cousineau, C. R.	c Com 1
Calhoun, Mrs. I. L.	A 4	Cowper, Mrs. M.	Corr
Calhoun, W. P.	D 5	Craig, Miss C. D.	A 4
Cameron, A. L.	Com 3	Craig, Miss D. D.	A 4
Cameron, D.	Ag 1	Craig, H. E.	Ag 2
Cameron, G. J.	M 4	Cram, E. J.	A & M 3
Cameron, Miss J. M.	p A 2	Cram, W. W.	c Ag 2

STUDENTS

Crang, C. L.A & M 4
 Crawford, D. J. M.M 6
 Crawford, Miss J.Com 1
 Crickmay, Miss M.N 1
 Cromarty, W. B.L 3
 Cross, E. E.L 3
 Cross, Miss M. F.N 1
 Cross, T. L.L 3
 Croswell, Miss D. M.N 2
 Crum, A. W.SS
 Culver, E. S.Com 4
 Culver, Miss M. E.s A
 Cummings, Miss I.A 4
 Cummings, J. B.c S 1
 Currie, D.M 5
 Cutsungavich, W. D.p M 1
 Davidson, A. E.M 2
 Davies, C. E.M 6
 Davies, J. A.p A & L 2
 Davies, J. A.SS
 Davies, P. G.L 3
 Davies, W. J.Com 4
 Davis, Miss D. L.p A 3
 Davis, Miss M. T.Corr
 Dawson, J. A.PhmL 2
 Day, Miss N. S.N 1
 Dean, W. J.S 4
 Dean, W. R.A 3
 Deane, Miss M.HEc 4
 Decker, G. E.D 1
 de Jurkowski, B.L 2
 DeLong, G. E.Ag grad
 Derrett, Miss I. F.N 2
 Deverell, Miss D. M.Corr
 Dewar, W. R.M 1
 Diamond, Miss R. S.A 3
 Dick, Miss M. J.Corr
 Dickson, H. H. L.A 4
 Dickson, Miss M. A.SS
 Dimock, C. H.M 2
 Dinwoodie, W. A.c S 1
 Dixon, F. B.A grad
 Dobry, J. J.M 5
 Dobson, C. R.M 2
 Dockerill, R. P.Com 3
 Dodd, Miss F. E.s A
 Dodds, R. G.D 2
 Doerksen, J. B.D 1
 Doerksen, W. H.D 1
 Donaldson, Miss M. E.A 3
 Douglas, Miss D. C.c PhmL 1
 Douglas, E. W.A & M 2
 Douglas, G. A.A 1
 Douglas, Miss M. J.N 1
 Downey, M. J. V.A 4
 Downs, Mrs. S. A.s A
 Downs, W. J.A & M 1
 Drew, A. W.S 5
 Drinnan, R. G.S 3
 Driscoll, D. J.c A 2
 Drummond, W. A.M 1
 Duggan, Miss G. L.N 1
 Dumouchel, M. L.A 3
 Duncan, J. E.S grad
 Duncan, Miss M. B.A & M 1
 Dunlap, Miss G. W.c A 1
 Dunlop, Miss E. F.Corr
 Dunn, A. F.M 3
 Dunn, N. E.c A 3
 Duthie, R. C.Corr
 Dutton, E. E.A 2
 Duxbury, Miss D. J.N 1

Eaglesham, J.c A 1
 Eaglesham, Miss M.c A 2
 Eddy, E. B.A grad
 Edgar, J. E.Ag 4
 Edmonds, D. E.A 4
 Edwards, C. A.L 2
 Edwards, F. J.S 1
 Edwards, G.PhmL 2
 Edwards, J.A 2
 Elford, Miss E. C.Corr
 Ellehill, R.Corr
 Ellis, H. S.M 3
 Ellis, J. P.M 3
 Ellis, Miss M.N 2
 Elmore, Miss G. H.A & M 3
 Elves, H. R.c S 2
 Emmett, F. J.A & M 4
 English, R. E.Ag 3
 Esch, Miss K.HEc 2
 Ethridge, Miss L. E.SS
 Evans, Miss E. M. D.Corr
 Evenson, A. B.Corr
 Everest, C. J.Corr
 Eversman, Miss L. C.c A 2
 Ewing, Miss S. M.A 3
 Fane, Miss B. M.N 2
 Fanning, Miss G. M.HEc 4
 Farmer, Miss E. K.A 3
 Fawcett, W. C.c Ag 4
 Fedorchuk, P.PhmL 2
 Ferguson, A.c S 1
 Ferguson, Miss C. J.A 2
 Fewkes, Miss K.A 2
 Field, G. S.S 3
 Fink, N. H.S 3
 Fisher, C. B.S 3
 Fisher, S. T.S 3
 Flater, N. F.M 6
 Flood, A. B.c S 1
 Folkins, Miss J. E.HEc 4
 Ford, Miss L. E.c A 1
 Foster, W. M.M 3
 Foster, W. R.Ag 3
 Fountain, T. H.A 2
 Foy, E. F.c A & M 1
 Frame, W. E.A grad
 Fraser, Miss B. M.A 2
 Fraser, Miss M. N.Corr
 Fraser, R. A.c PhmD 1
 Fraser, R. N.S 2
 Fraser, S. D.D 2
 Freebury, G. P.Corr
 Freifeld, D.S 2
 Frick, H. C.c A 1
 Frickelton, W. C.A 3
 Froman, D. K.A grad
 Frost, Miss F. H.A 3
 Fry, Miss D.Com 1
 Fry, Miss G. A.HEc 2
 Fuog, P. A.Com 2
 Galbraith, A. S.p A 3
 Galbraith, E. M.D 3
 Galbraith, F. O.M 4
 Gale, M. L.S 5
 Gamble, G. K.M 2
 Garden, J. H.Div
 Garrison, Miss D. E.A 1
 Garrison, Miss D.A grad
 Gazley, Miss B. C.A 4
 Geissinger, M. E.A & M 3
 Gemmill, W. E.c D 1
 Gerrie, J. W.D 6

UNIVERSITY OF ALBERTA

Gibbons, Miss I. M.	A 1	Hayhurst, W.	SS
Gibson, G. R.	D 3	Haythorne, T. R.	A 2
Giffen, Miss B.	A grad	Hayward, Miss E. M.	A 2
Giffen, J. W.	M 4	Hayward, Miss E. M.	SS
Gilhooly, Miss E. W.	A 3	Hayward, S. E.	s A
Gillies, A.	Corr	Heathcote, Miss L. M.	A grad
Gillis, Miss A. M.	c A 2	Hedderick, J. B.	PhmL 2
Gilroy, T.	s A	Hegler, Miss F. H.	A grad
Gishler, P. E.	A 2	Hegler, Miss F. H.	SS
Gold, Miss M. H.	s A grad	Henderson, R. D.	L 3
Goldberg, W. D.	PhmD 4	Henry, A. W.	S 1
Goodale, Miss H. L.	N 1	Henry, Miss N. M.	A 1
Goodall, L. B.	Ag 3	Herrellers, J. H.	SS
Gordon, Miss A. G.	A 2	Hess, F. A.	c S 1
Gorrill, J. F.	Corr	Hessey, Miss K. E.	p Com 3
Goshko, Miss A.	N 2	Hewelcke, G. W.	A 4
Gould, Miss J. E.	N 2	Hicks, A. C.	A & M 2
Gourlay, W. N.	c A 1	Hicks, R. A.	M 5
Gowan, G. V.	A & L 2	Hide, J. C.	Ag 1
Gowda, F.	D 4	Higgs, Miss H. D.	A 2
Graham, Miss E.	H.Ec 3	Hill, Miss D. K.	A 3
Graham, J. H.	c D 1	Hill, R.	Com 2
Graham, Miss M.	Corr	Hilton, G.	Corr
Graham, S. S.	Ag 2	Hinchey, R. R.	p A 4
Grant, Miss M. A.	A 3	Hinds, Miss L. E.	N 2
Grant, R. A.	Ag 1	Hinke, Miss L. M.	A 4
Grant, Miss O.	N	Hobbs, A. W.	A & L 3
Greenberg, C.	M 5	Hobbs, F. S.	A & M 3
Greenlees, C. D.	A 2	Hodgson, S. C.	c D 1
Greig, Miss F. E.	SS	Hodgson, W. M.	M 2
Griffith, Miss E. M.	H.Ec 3	Hofbauer, M. A.	D 1
Grisoff, I. S.	M 4	Holgate, W. T.	c S 2
Gundesen, Miss H. B.	SS	Hollies, E. G.	M 6
Haan, Miss I. F.	c H.Ec 1	Holmes, C. E.	c A & M 1
Habkirk, J. A.	c PhmL 1	Holmes, C. R. M.	Ag 4
Halabisky, N. D.	M 5	Holmes, Miss N. M.	SS
Hall, Miss E. B.	Corr	Holmes, Miss N. M.	A 4
Hall, J. J. L.	Corr	Holowaychuk, N.	c Ag 2
Hall, J. J. L.	c A 2	Hood, Miss M. M.	N 2
Halliday, R. F.	PhmL 2	Hoover, W.	c PhmD 1
Hallman, Miss I. D.	Corr	Hope, Miss D.	SS
Halperin, M.	M 2	Hopkins, J. W.	c Ag 2
Hamilton, Miss A.	Corr	Horne, Miss R. E.	Com 2
Hamilton, Miss D. I.	p A 3	Horricks, Miss E.	A 3
Hamilton, Miss D. I.	SS	Horricks, H. M.	A grad
Hamilton, R. C.	A & M 4	Howes, Miss K.	H.Ec 2
Hammond, J. A.	Corr	Howes, Miss K.	SS
Hay, Miss E. L.	Corr	Hueston, Miss L. A.	p A 4
Hango, J. R.	S 3	Hughes, E.	s S
Hanna, Miss M.	SS	Hughes, Miss N.	A 3
Hannochko, F.	c A 1	Hunkin, A. T.	SS
Hansen, D. A.	p S 4	Hunt, H. B.	M 4
Harback, F. R.	A 4	Hunt, J. W.	Corr
Harcourt, G. A.	S 3	Hunt, Miss M. T.	A 3
Harcourt, Miss N. H.	s A	Hunter, Miss E. M.	Corr
Harding, R. B.	A 2	Hunter, H. M.	S 5
Hargarten, B. W.	A & M 4	Hunter, Miss H. H.	N 2
Hargrove, P.	S 4	Hunter, Miss M. W.	H.Ec 1
Harper, W. J.	Ag 3	Hurt, E. F.	Corr
Harris, J. E.	A 4	Husband, C. D.	D 4
Hart, Miss E. A.	c A 1	Hutton, A. E.	A grad
Hart, J. E.	Com 2	Hutton, Miss B. G.	N 1
Hart, T.	Div	Hutton, H. H.	Com 1
Hartley, Miss E. M.	A 2	Hyndman, Miss G. H.	s A
Hartshorn, Miss D. E.	A 3	Hyndman, L. D.	L 3
Harwood, R. U.	A 4	Irwin, F. P.	p A 4
Haw, Miss O. V.	A grad	Jackson, Miss M. E.	A 3
Haworth, D. C.	D 4	Jackson, Miss M. I.	SS
Haworth, G. C.	M 6	Jackson, W. M.	Corr
Haworth, Miss J. F.	N 1	Jaeger, J. C.	c A 1
Hawrysh, Miss D.	N 3	Jagoe, Miss O.	A 3
Hay, W. D.	Ag grad	James, H. C.	c PhmL 2

STUDENTS

Jamieson, Miss I. M.A 4
 Jamieson, J. K.c S 1
 Janzen, W. E.D 2
 Jarvis, Miss K. M.Corr
 Jeffery, C. V.Com grad
 Jellis, W. H. S.Ag 1
 Jensen, Miss H. W.A 1
 Jewitt, W.A 4
 Johanson, A. N.c M 1
 Johns, C. K.Ag grad
 Johns, Mrs. D. F.H.Ec grad
 Johnson, Miss A. L.SS
 Johnson, E. A.M 5
 Johnson, Miss E. C.N 1
 Johnson, Miss H. M.A 2
 Johnson, H. G.L 3
 Johnson, T. F.SS
 Johnson, W. P.PhmL 1
 Johnston, A.c M 1
 Johnston, Miss A. M.Corr
 Johnston, F. D.M 3
 Johnston, G. C.M 3
 Johnston, H. W.PhmD 2
 Johnston, W. H.Com 2
 Johnston, W. F.PhmL 1
 Johnstone, Miss I. E.H.Ec 2
 Johnstone, M. J.c S 1
 Joly, P. V.L 1
 Jonason, C. J.A 4
 Jones, A. R.S 4
 Jones, Miss D. A.c A 2
 Jones, J. R. B.S 2
 Jones, L. D.c A 2
 Jones, W. L.L 1
 Joyce, Miss A. F.M 3
 Joyce, Miss F.A 1
 Joyce, S. R.c A 1
 Juhlin, Miss J.A 2
 Kajiro, F.M 1
 Kallman, Miss A.N 2
 Kallman, Miss E. H.N 3
 Kamitakahara, H.M 1
 Keir, Miss C. M.SS
 Keir, Miss C. M.A 4
 Kellam, Miss D. R.Com 4
 Kellam, E. C.Com 4
 Kelly, J. W.c S 1
 Kelly, O. G.c S 1
 Kemp, M. D.S 4
 Kennedy, Miss A.M 4
 Kenway, C. B. B.s A
 Kibblewhite, E. J.SS
 Kibblewhite, E. J.Corr
 Kickham, L. A.M 2
 Kilburn, P.A 2
 Kilduff, T.c Ag 2
 Kindt, A. J.Ag 2
 Kindt, L. E.Ag 4
 King, H. C.Corr
 King, Miss G. E.PhmD 2
 Klinck, W. R.A 4
 Klingaman, G. W.A & M 4
 Kocher, W. J.S 2
 Kologie, Miss N.N 1
 Kostash, J. F.S 3
 Kunst, F.S 5
 Kurimotos A
 Kutz, R. L.s A grad
 Kutz, W. M.A grad
 Kvale, O.c D 2
 Kyle, D. S. A.SS
 Kyle, J. S.S 4
 Lando, E.L 1

Landels, Miss I.SS
 Lang, Miss I.N 2
 Lang, Mrs. J. H.s A
 Langston, R. G.M 5
 Large, J. M.M 3
 Latam, Miss V. W.N 1
 Laudan, H. J.M 5
 Laverty, C. A.S 4
 Lazerte, M. E.A grad
 Leahey, A.Ag grad
 Lees, G. M.c S 1
 Lees, Miss M. J. B.N 2
 Lefsrud, I.A & M 4
 Leger, F. J.c A 1
 Leggatt, C. W.Ag grad
 Lehanky, P.Com 2
 Lehmann, J. V.Ag grad
 Lehmann, Miss M. G.A 2
 Lehmann, Miss M. G.SS
 Leighs, C. H.S 2
 Lent, Miss A. A.H.Ec 2
 Lesik, J. I.D 4
 Lesk, L.M 2
 Lessard, A.L 2
 Lester, C. W.S 1
 Levell, G. M.c Com 1
 Lewis, E. R.Ag 2
 Lewis, G. C. M.Corr
 Lewis, G. C. M.S 3
 Lewis, L.PhmD 2
 Liesemer, A. J. E.A 4
 Linton, C. B.c S 1
 Lipkind, Miss M. L.c Com 1
 Litster, Miss A. M.N 3
 Litster, J. C.c S 2
 Little, Miss G. R.L 1
 Little, W. C.Ag 3
 Little, R. V.D 3
 Lobel, H. R.M 5
 Long, G. S.A 1
 Lonsdale, T. H.Div
 Losie, Miss B.c H.Ec 2
 Lowry, C. M.D 3
 Lucas, J. W.S 2
 Lukaschuk, P. H.c Com 1
 Lukaschuk-Luoren, H.M 5
 Lundy, D. B.Com 3
 Lundy, Miss M. A.N 2
 Luxton, Miss E. G.c A 1
 Lyle, G. R.A 4
 Lynch-Staunton, F.S 3
 Lyons, B. H.M 2
 Lynn, F. W.Corr
 Lynn, S. C.S 3
 Lyse, Miss A. D.Corr
 McAra, J. B.Com 4
 MacArthur, J. G.c M 1
 MacArthur, P. D.c S 2
 McBain, Miss D. C.A 2
 McBain, Miss P. A.N 2
 McBeath, T. C.Ag 3
 McCaffary, Miss T. E.H.Ec 2
 McCaig, Miss H. E.s A
 McCalla, A. G.Ag 2
 McCallum, D. L.A 3
 McCallum, Miss J. J. S.A 4
 McCallum, Miss J. J. S.SS
 McCardell, W. S.Corr
 Macaulay, M. G.A 4
 McCombs, L. S.c Com 1
 McConkey, Miss K. F.A 2
 McCray, Miss A. J.A 4
 McDannold, W. H.c A 1

UNIVERSITY OF ALBERTA

McDonald, D. P.	L 2	McNaught, Miss I. L.	Corr
McDonald, Miss F. R.	H.Ec 2	McNeil, A. O.	s A
MacDonald, J. M.	SS	McNeil, Miss H. C.	p A 4
Macdonald, I. B.	c M 1	McParland, E. B.	c S 1
Macdonald, I. S.	Com 3	MacPherson, A. D.	M 4
McDonald, J. A.	c M 1	McPherson, A. F.	s 5
McDonald, Miss M. A.	H.Ec 2	McPherson, J. A.	A 2
McDonald, M. W.	Corr	McPherson, J. C.	c A & M 2
McDonald, R.	c A & M 1	McQuillan, R. C.	c D 1
McDonald, R.	Corr	McRae, C. E.	M 2
MacDonald, S. G.	L 2	McShane, K. E.	c A 1
MacDonald, S. G.	A grad	McVeigh, H. H.	Com 3
MacDonald, W. A.	M 6	Madill, H. A.	c A 1
MacDonald, W. L.	A grad	Madill, J. S.	M 2
McDougall, F. W.	c S 2	Magee, Miss E. F.	A 2
McDougall, J. F.	S 3	Magoon, Miss M. A.	H.Ec 1
McEwen, Miss J. I.	SS	Mahaffy, Miss E.	M 4
McEwen, K. M.	Com 4	Mair, R. C.	c S 1
McFall, J. R.	Ag 3	Major, T. B.	Com 2
McFarland, H. A.	Corr	Malcolmson, P. H.	M 3
McFarland, W. I.	S 3	Mallory, Miss K. F.	N 3
MacFarlane, Miss M. E.	H.Ec 3	Malo, B. N.	M 4
McGoun, Miss I. W.	s A	Manning, M. E.	A & L 2
MacGregor, H. A.	Ag 3	Manson, J. M.	Ag grad
MacGregor, J. G.	S 3	Margolus, Miss C.	Com 2
Macgregor, J. W.	M 3	Marion, I.	A 2
McGugan, A. C.	M 4	Markle, J. W. E.	SS
McInnes, N. D.	A 3	Marriott, G. H. D.	S 2
McIntosh, Miss M. N.	Corr	Marshall, Miss D.	Corr
McIntyre, D. V.	S 2	Marshall, J. C. M.	L 3
McIntyre, J. E.	s A	Martin, Miss E. M. F.	A grad
McKay, Mrs. D. P.	SS	Martin, W. M.	Ag grad
McKay, G. W.	c A & M 2	Martland, R.	L 2
Mackay, J. G.	c A 2	Massie, B. V.	L 1
McKechnie, R. E.	M 2	Massie, Miss M. E.	A 2
McKenzie, C. H.	M 6	Matheson, D. A.	SS
McKenzie, D. B.	A 4	Matheson, J. A.	L 2
McKenzie, J. P.	A 2	Mattern, L.	A grad
MacKenzie, K. C.	A 4	Matthews, Mrs. M.	Com 4
McKernan, Miss L. S.	Corr	Mayhew, Miss E. J.	H.Ec 3
McKim, A. B.	Corr	Meadows, Miss H.	A 1
McKim, A. B.	SS	Meadows, W. A.	A & M 3
MacKinnon, C.	c A 1	Melling, T.	M 2
McKinnon, Miss E. M.	c A 1	Melnky, N.	S 4
McKinnon, S. D.	M 3	Menzies, Miss J. E.	N 2
McKinley, Miss A. L.	Corr	Michael, R. K.	S 3
McLaggan, Miss M. E.	Corr	Millar, Miss J. I.	H.Ec 3
MacLaggan, Miss R. J.	A 3	Miller, Miss E.	A 4
McLaren, S. C.	c S 2	Millen, Miss F. M.	SS
MacLaren, V. I.	S 1	Miller, H. E.	Corr
MacLaren, W. H. R.	A & L 3	Miller, Miss V. N.	A 2
McLatchie, Miss U. G.	PhmD 3	Milligan, W. M.	Ag 1
McLaughlin, J. H.	Ag 4	Mills, G. D.	Corr
McLean, A. T.	c A & L 1	Mills, Miss E. G.	N 1
MacLean, H. R.	D 4	Mills, T. F.	PhmL 1
McLean, J. H.	SS	Millward, T.	PhmL 2
McLean, Miss J. C.	A 3	Milne, Miss L. M. I.	H.Ec 2
McLean, J. A.	M 2	Miskew, J.	c M 1
MacLean, R. R.	M 6	Mitchell, Miss E.	c Com 1
MacLean, T. K.	M 3	Mitchell, R. R.	L 3
McLellan, Miss M. E.	A 2	Mockridge, Miss G. I.	SS
McLellan, Miss W. H.	A grad	Moderwell, W. E.	PhmL 2
MacLennan, A. H.	A & M 3	Moffatt, Miss E. K.	A 2
McLennan, Miss A. J.	PhmD 4	Moffatt, J. A. W.	D 2
MacLennan, Miss I. K.	Corr	Monaghan, J. O. G.	A & M 2
MacLeod, Miss A. J.	N 5	Moody, G. E.	S 2
McLeod, N. W.	S 2	Moon, H. D.	S 4
McLurg, J. J. A.	A 2	Moorhouse, A. B.	c S 1
MacMillan, Miss F. E.	H.Ec 3	Moorhouse, C. E.	S 5
McMillan, S. R.	S 2	Moorhouse, Miss J. E.	A 4
Macnab, Miss I. M.	A 2	Moran, N. R.	Com 1
MacNab, Miss J. J.	A 2	Morgan, S. C.	s grad

STUDENTS

Morris, D. D.	S 4	Pearson, Miss K. M.	N 1
Morris, H. E.	A 2	Peffer, W. O.	c S 2
Morris, J.	S 2	Peirce, A. C.	c Ag 2
Morrissey, J. P.	A 2	Pekarsky, L.	A 3
Morrison, D. M.	L 5	Pelechaty, Miss N. D.	N 2
Morrison, H. W.	A 1	Pennock, Mrs. M. B.	Corr
Morrison, J. G.	A 4	Pepper, J. H.	Corr
Morrison, Miss M. A.	Corr	Perrie, J. A.	A 3
Morrison, Miss L. B.	N 2	Peterson, A.	Corr
Morrison, Miss M. E.	A 1	Peterson, E. N.	A 4
Mullett, Miss G. H.	A 2	Pfefferle, Miss E. M.	A 2
Munro, Miss B. J.	A 2	Philp, C. W.	M 2
Murphy, D. J.	M 2	Pinchbeck, G. R.	c S 1
Murray, J. R.	M 4	Pingle, R. W.	c A 1
Murray, Miss M. C.	A 5	Piper, L. S.	S 4
Murray, W. B.	S 5	Poirier, H. H.	Corr
Mutchmor, J. M.	D 3	Pollock, C.	S 4
Nance, W. T.	s Ag	Ponich, M. H.	c A 1
Neil, J. S.	S 2	Poole, W. H.	SS
Neveczis, W. S.	M 2	Porter, Miss V. D.	N 1
Newcombe, Miss A. E.	H.Ec 1	Pope, Mrs. E.	s A
Newcombe, H. L.	A & M 3	Porayko, W. G.	Com 2
Newhouse, Miss E.	A 4	Porteous, J. W.	S 4
Newhouse, Miss L.	A 4	Porter, R. D.	c PhmL 1
Newman, A.	Ag grad	Powell, Miss M. G.	A & M 1
Newsham, L.	s Ag	Powell, Miss C. M. G.	A 2
Newton, Miss D. A.	M 3	Power, A. P.	Com 3
Newton, Mrs. E. R.	A 2	Pratt, K. E.	A & M 4
Nichols, Miss E. L.	A 4	Prevey, Miss R. B.	N 1
Nicol, D.	S 1	Price, A. G.	p Com 2
Nielsen, J. B. D.	Com 4	Price, C. L.	c PhmL 1
Nikiforuk, W.	c M 1	Prime, A. W.	SS
Nix, H. L.	M 6	Primrose, Miss S. E.	c A 1
Nix, Miss M. N.	A 4	Prittie, R. J.	c S 1
Noble, M. R.	c S 1	Provencher, J. P.	L 1
Norris, Miss E.	PhmD 2	Pullan, Miss E. F.	A 2
Obee, C. G.	Ag 1	Pullishy, W.	c Com 1
O'Brien, H. E.	Ag 1	Putland, A. K.	A grad
Ockley, Miss B. A.	A grad	Pyrz, T.	A 2
Oke, D. J. W.	A grad	Quail, Miss H. M.	Corr
Olander, Miss B.	A 3	Race, Miss M. A.	H.Ec 4
Olekshy, M. D.	S 3	Rae, Miss M. V.	M 4
Olive, A. P.	c A 1	Ramsay, D. M.	p A 4
Olsen, E.	S 3	Rasmussen, S.	c A 1
O'Neill, A. J.	c A & L 2	Raver, Miss A.	N 5
Ortner, G. S.	S 4	Rawlinson, H. E.	M 6
Osborne, J. R.	c Com 2	Rea, W.	c Com 2
Osborne, Miss P. G.	H.Ec 4	Read, E. H.	A 2
Ostry, H.	M 3	Reed, Miss G. V.	c N 1
O'Toole, G. W.	M 3	Reed, J. R.	Com 2
Overbaugh, S. C.	c A 1	Reed, Miss K. R.	A 4
Overbo, J.	c A 1	Rehwinkel, Mrs. B.	s A
Oviatt, D. T.	Corr	Reiber, H. G.	A 4
Page, Miss M. E.	c H.Ec 1	Reid, C. C.	c PhmL 1
Palmer, A. E.	Ag grad	Reid, Miss H. A.	N 2
Palmer, Miss V. M.	Com 2	Reid, Miss M. M. O.	c A 1
Paris, C.	c Com 1	Reid, Miss M. T.	Corr
Paris, Miss I. G. A.	c Com 1	Reilly, C. F.	A grad
Parke, Miss A. V.	s A	Reith, Miss M.	N 2
Parke, Mrs. M. V.	p A 1	Render, C. H.	c Com 1
Parker, E. R.	A 2	Revell, A. M.	D 3
Parlee, W. O.	A 2	Revell, D. G.	M 2
Parmelee, Miss G. E.	A 3	Revell, Miss G. A.	N 1
Parry, T. M.	S 3	Rice-Jones, Miss E. M.	N 1
Parsons, A. N.	Corr	Richardson, B. W.	D 4
Parsons, W. B.	A 1	Richardson, E. A.	M 2
Part, J. J.	c S 1	Richardson, R. E.	A 2
Paskins, Miss M.	H.Ec 2	Riches, P. L. F.	A grad
Pattullo, Miss C. B.	p A 3	Ricker, Miss G. M.	s A
Pattullo, Miss C. B.	SS	Ricker, H. B.	A 1
Pauls, V. A.	PhmL 2	Riddehough, G. B.	A grad
Pauly, A. J.	A 2	Ridpath, S. A.	A 2
Pearson, J.	Corr	Riis, Miss I. K.	H.Ec 2

UNIVERSITY OF ALBERTA

Riley, Miss H. M.A 1
 Robbins, L.Corr
 Roberts, Miss M. M.A 4
 Robertson, D. H.PhmL 1
 Robertson, G. S.S 1
 Robertson, R. G.c S 1
 Robinson, C. H.A grad
 Robinson, Miss E.A 3
 Robinson, Miss T. B.A 4
 Robinson, W.Ag grad
 Rogers, Miss C. G.Corr
 Rogers, Miss G.SS
 Rogers, H. B.A 3
 Rogers, W. W.SS
 Rollis, O. H.c A 1
 Rosborough, A. E.A grad
 Roseborough, Miss M. M.A 2
 Rosenthal, R. S.M 4
 Rosher, F. W.M 2
 Ross, D. W. M.c S 3
 Ross, Miss H. M.A 2
 Ross, S. M.c PhmL 1
 Ross, W. S.L 3
 Roth, Miss L. F.p A 3
 Rowe, A. H.A grad
 Rowe, Mrs. J. I.s A
 Rowell, Miss N.N 1
 Rowles, Miss M.N 2
 Roxburgh, W. G.Corr
 Roxburgh, D. B.Ag 4
 Rudolph, Miss M. N.A 4
 Runge, G. A.S 3
 Rush, R. D.M 4
 Rushton, Miss J. I. M.A 2
 Russell, L. S.A 4
 Russell, W. F.A & M 3
 Saddington, A. W.A 3
 Salmon, Miss J. I.A 2
 Saunders, Miss H. J.A 2
 Savage, J. A.Corr
 Scarborough, C. M.A 4
 Schmaltz, S. M.c M 1
 Schneider, R.A grad
 Schon, Miss B.N 1
 Schroeder, F. W.M 3
 Scoffield, A.c S 1
 Scoffield, Miss M.M 2
 Scott, H.A & M 3
 Scott, R. J.s A
 Scott, J. W.s A
 Scott, W.A 2
 Scully, D. G.L 1
 Selby, C. C.c A 1
 Secord, Miss I.A 4
 Selnes, W. E.S 5
 Service, Miss L. B.c A 1
 Sestrap, Miss L.c A & M 2
 Shabaz, R.L 3
 Shanklin, W. R.A grad
 Sharman, W. J. L.A & M 3
 Shearer, Miss A. E.H.Ec 3
 Sheppard, R. S.A grad
 Sherlock, Miss M.A grad
 Shewchuk, P. T.c PhmL 1
 Shillington, Miss F. A.A 4
 Shimokura, H. M.M 1
 Shlain, Miss E. L.PhmD 3
 Shore, L. M.PhmL 2
 Short, W. A.p L 3
 Shultz, D. V.Ag 3
 Sieber, L. G.A 2
 Siebert, W. J.D 3
 Sigler, D.p A 4
 Sillars, Miss A.A 2

Silverthorn, Miss M. E.A grad
 Simpson, C. S.D 3
 Simpson, Miss G. E.Corr
 Simpson, Miss M. S.A grad
 Skitch, A. J.s A
 Skitch, C. H.M 3
 Sloane, Miss M. S.A 1
 Slonaker, Miss E. M. F.A 3
 Smiles, J. W.c S 1
 Smith, Miss A. D.c Com 2
 Smith, C. B.M 5
 Smith, Mrs. D.s A
 Smith, E. C.c M 1
 Smith, Miss C. E.p A
 Smith, Miss E. I.A 4
 Smith, E. L.S 3
 Smith, Miss F. M.N 2
 Smith, G. P.A & L 3
 Smith, G. P.Corr
 Smith, H. E.A grad
 Smith, Miss J. H.N 3
 Smith, L. E.D 5
 Smith, Miss M. M.Corr
 Somerville, H. C.Corr
 Somerville, H. H.Corr
 Sprague, P. H.M 6
 Springbett, E. V.D 2
 Sproule, D. O.A 3
 Sproule, J. C.p A 1
 Sproule, Miss M. J.SS
 Stacey, Miss D. M.p A 3
 Stacey, E. C.Ag grad
 Stacey, Miss O. K.N 2
 Stade, Miss D. A.A 2
 Stafford, H. D.L 1
 Stafford, Miss M. J. I.A 2
 Stainton, T. J.Div
 Stanley, G. P. G.A & L 3
 Stanley, T. D.c A 2
 Stanley, W. K.L 2
 Starkie, Miss A.A 2
 Steele, W. E.S 1
 Steele, Miss E. M.A grad
 Steele, P. H.SS
 Steeves, W. B.PhmL 2
 Stephens, C. W.M 3
 Stephens, H. H.M 1
 Stephens, S. C.Com grad
 Sterndale-Bennett, M. J.c S 2
 Stewart, A. G.c S 2
 Stewart, Miss H. E.A 4
 Stewart, Miss M. I.SS
 Stiles, Miss E. F.c H.Ec 1
 Stinson, Miss G.SS
 Stockwell, A.SS
 Stoner, D. D.A & M 3
 Stoner, R. R.M 4
 Storey, C.s A
 Story, G. L.S 2
 Story, Miss M. C.N 2
 Strohan, R. E.M 2
 Stuart, C. E.A & L 4
 Sudre, Miss E. M.A 2
 Sutherland, G. D.D 5
 Svecla, Miss L.c A 1
 Sweeney, J. M.A 3
 Sweet, H. C.A grad
 Swift, W. H.A grad
 Swift, W. H.SS
 Symington, E. L.c PhmL 1
 Syrotuck, M.Ag 4
 Tait, J. D. J.Ag 1
 Tallman, F. F.M 6
 Tanton, T. D.c L 1

STUDENTS

Tatham, J. G.c S 1
 Taube, E.A 3
 Tavender, E. R.L 3
 Taylor, C. D.M 2
 Taylor, Miss G. G.A 4
 Taylor, J. J.S 4
 Taylor, L. H.D 1
 Tennyson, B.Com 2
 Teskey, H. G.A grad
 Teskey, H. G.SS
 Teviotdale, J. R.c M 1
 Thomas, D. H.Ag grad
 Thompson, Miss A. G.A 2
 Thompson, E. J.A grad
 Thompson, Miss E.SS
 Thompson, L. A.p A 3
 Thompson, Miss R. M.N 2
 Thomson, Miss B.Com 3
 Thomson, J.S 3
 Thomson, Miss O. M.p A 3
 Thomson, R. K.M 2
 Thornton, D. C.Corr
 Thorpe, R. C.D 3
 Thrasher, Miss M. M.A 4
 Thurlow, Mrs. J. K.A grad
 Tilson, F. L.A grad
 Tinkness, Miss D. M.Corr
 Tinkham, E. R.A 4
 Tivey, T. B.Corr
 Tomlinson, H. O.A grad
 Toms, Miss A. B.N 1
 Tredway, Miss M.H.Ec 3
 Trenholm, W. A.M 1
 Trowbridge, E. B.A & M 3
 Trowbridge, Miss M. E.N 1
 Turner, D. B.c A 1
 Tyrrell, G. H.Corr
 Tyson, E. G.Ag 2
 Ullman, Miss V. M.c A 1
 Valens, W. L.M 3
 Vance, F. E.Corr
 Van Kleeck, C. G.PhmL 1
 Verchomin, J.M 6
 Verge, J. W.SS
 Villett, G. H.A grad
 Vosburgh, J. W.M 2
 Voss, G.S 1
 Waddell, Miss J. H.Corr
 Waddell, Miss H. J.SS
 Wagner, W. P.SS
 Waldo, Miss A. L.c PhmD 2
 Waldo, C. S.Com 4
 Walker, A. E.M 3
 Walker, D. E.A grad
 Walker, D. E.L 2
 Walker, K.Ag 3
 Wallace, Miss D. G.N 1
 Wallace, R. G.Corr
 Walters, Miss R. H.Corr
 Walters, Miss S. L.A 3
 Walton, R. E.S 4
 Walton, T. F.S 4
 Wasson, K. C.D 3
 Waterbury, H. E.PhmL 2
 Watherston, Miss O. F.N
 Watkins, Miss P. E.A 1
 Watson, W. R.L 2
 Watson, W. S.S 4
 Watt, Miss A. E.A 3
 Watt, R. G.A 4
 Wattie, G. T.c PhmD 1
 Watts, E. H.M 3

Watts, G. W. T.A grad
 Webb, H. R.s S grad
 Webber, G. C.Corr
 Webber, W. E.D 2
 Webster, E. C.A 1
 Wees, W. R.A grad
 Weinlos, C.A & M 4
 Weinlos, M.M 5
 Weir, C. V. F.A & S 4
 Weir, Miss M. F.A 4
 Wells, Miss J. G.c A 2
 Wells, Miss J. G.SS
 Wener, E. H.c A 1
 Wershof, M. H.A & L 3
 Werthenbach, Miss D. E.A 4
 Werthenbach, F. E.M 3
 Whidden, J. M.Com 2
 White, Miss E.N 1
 White, C. E.S 5
 White, J. P.SS
 White, S.A 2
 Whitehorn, L. N.Corr
 Whitelaw, W. A.M 3
 Whiteside, Miss L. L.A 3
 Whiteside, C. W.M 5
 Whittaker, E. L.L 2
 Wilkie, Miss A.A grad
 Wilkinson, E.D 5
 Willcock, Miss F.Corr
 Willcock, Miss F.SS
 Willett, J. R.SS
 Williams, Miss B. L.H.Ec 3
 Williams, Miss E. M.A 4
 Williams, Miss E. B.A 2
 Williams, H. K.c S 1
 Willis, J. D.S 5
 Willis, A. R.Com 4
 Willison, Miss E. A.A 2
 Willison, Miss G. A.H.Ec 2
 Wilson, A. E.c A & M 1
 Wilson, A. R.M 6
 Wilson, Miss A. E.M 3
 Wilson, B. H.Ag 4
 Wilson, E. B.L 3
 Wilson, G. L.A grad
 Wilson, G. L.SS
 Wintemute, F. M.c Ag 1
 Wittmack, Miss G.N 1
 Wood, E.A 3
 Wood, Miss M. E.A 2
 Woodford, R. S.A 4
 Woods, J. Y.A & L 2
 Woods, Miss M. K.M 5
 Wright, A. J.M 4
 Wright, E. K.A & M 4
 Wright, R. J. L.A & Ag 4
 Wyatt, J. L.D 2
 Wyllie, Miss M. C.A grad
 Wyllie, F. J.S 3
 Wyman, E. S. M.L 3
 Wynn, Miss M.H.Ec 1
 Wynnchuk, Miss M. H.N 2
 Young, Miss D. S.H.Ec 4
 Young, Miss E. P.A 2
 Young, Miss E. R.A 2
 Young, Miss E. R.SS
 Young, Miss H. B.p A 4
 Young, R. S.Ag 3
 Yule, M. J.PhmL 2
 Zadra, M.M 4
 Zakus, P.D 4
 Zimmerman, F. H.c S 2

Scholarships, Prizes, Medals and Degrees, 1926-1927

Nurses' Convocation, December, 1926

PRIZES

General Proficiency—Given by President Tory

Isobel Secord.

Honourable Mention: Annie Robertson.

Highest Standing in Examinations (Senior Year)—Given by Dean Kerr

Carthena Trowbridge.

Honourable Mention (Intermediate Year): Kathryn Mallory.

PRESENTATION OF DIPLOMAS

Bulyea, Josephine Hendry
Glanville, Nora Margaret.
Inkin, Maud Elizabeth.
Manuel, Hazeleen.
Purcell, Viola.
Ringwood, Eileen Eustace.

Robertson, Annie Craigmyle.
Secord, Isobel.
Trowbridge, Carthena Evelyn.
Trowbridge, Mabel Edith.
Whyte, Aileen Beatrice.
Wood, Doreen Lanore.

Convocation, May 13, 1927

SCHOLARSHIPS

SCHOLARSHIPS IN THE FACULTY OF MEDICINE OFFERED BY THE COLLEGE
OF PHYSICIANS AND SURGEONS OF THE PROVINCE OF ALBERTA

Final Year—Surgery: Randall Roberts MacLean.

Final Year—Medicine: Daniel James McGregor Crawford.

Third and Fourth Years—Physiology: Alexander Donald MacPherson

Second and Third Years—Anatomy: Gordon Charles Johnston.

First Year—Proficiency: Hiroshi Kamitakahara.

THE SCHOLARSHIPS OF THE ALBERTA PHARMACEUTICAL ASSOCIATION

In the Degree Course: Evelyn Shlain.

In the Licentiate Course: William Fay Johnston

THE AIKINS SCHOLARSHIP IN ENGLISH LANGUAGE AND LITERATURE
Emily Horricks.

THE WOMEN'S UNIVERSITY CLUB SCHOLARSHIP

Harriet Maude Riley.

PRIZES AND MEDALS

PRIZES

THE JANE ALEXANDER MEMORIAL PRIZE IN GEOLOGY

Robert Unwin Harwood.

THE GORDON STANLEY FIFE MEMORIAL PRIZE IN HISTORY

Irene Cumming.

AWARDS OF THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF ALBERTA

In Civil Engineering: Alfred William Drew.

In Electrical Engineering: Frank Kunst.

Honourable Mention: Cecil Earl Moorhouse; Alexander Ferrier McPherson.

In Mining Engineering: Harry Melville Hunter.

PRIZE IN THE HISTORY OF MEDICINE

Not awarded.

THE HAROLD WALDO HUESTIS MEMORIAL PRIZE IN ENGLISH

Laura Ford.

PRIZES IN MATHEMATICS

Mathematics 1; Not awarded.

Mathematics 3: Not awarded.

THE SAMUEL RICHARD HOSFORD MEMORIAL PRIZE IN ENGLISH

Dorothy Hamilton.

THE VALLEE FRENCH PRIZE

Harriet Maude Riley.

THE FRENCH PRIZE OF THE SOCIETE DU PARLER FRANCAIS

Margaret Stafford.

THE JANE ALEXANDER MEMORIAL PRIZE IN LATIN

Christina Jane Ferguson.

THE HISTORY CLUB PRIZE

Eva Ruder Younge.

THE STUTCHBURY RESEARCH PRIZE

William John Dean.

PRIZES OF THE CANADIAN INSTITUTE OF MINING AND METALLURGY

Not awarded.

THE WELLS PRIZES IN FRENCH

In French 51: George Francis Stanley.

In French 55: Florence Borden.

UNIVERSITY OF ALBERTA

THE CARSWELL PRIZES IN THE FACULTY OF LAW

Third Year: Elmer Sam Manuel Wyman.

Second Year: Ronald Martland.

First Year: Charles Eric Stuart.

THE HALLEY HAMILTON GAETZ PRIZE IN PHILOSOPHY

Eva Ruder Younge.

THE CANADIAN NORTHLAND RESOURCES PRIZE

Not awarded.

MEDALS

THE GOVERNOR-GENERAL'S GOLD MEDAL

John Harold McLaughlin.

THE ALEXANDER CAMERON RUTHERFORD GOLD MEDAL IN ENGLISH

Horatio Henry Lovat Dickson, Joseph Edwin Harris.

THE WOMEN'S UNIVERSITY CLUB GOLD MEDAL

Loris Shano Russell.

THE CHIEF JUSTICE'S GOLD MEDAL IN LAW

Elmer Sam Manuel Wyman.

THE JAMES RAMSEY GOLD MEDAL IN MATHEMATICS

Not awarded.

THE MOSHIER MEMORIAL MEDAL IN MEDICINE

Daniel James McGregor Crawford.

THE ALBERTA PHARMACEUTICAL ASSOCIATION GOLD MEDALS IN PHARMACY

In the Degree Course: William David Goldberg.

In the Licentiate Course: Thomas Millward.

LE CLUB LA VERENDRYE GOLD MEDAL IN FRENCH

Florence Borden.

DIAMOND JUBILEE MEDALS

Gold Medal—Highest Standing in Canadian History 58: Irene Cumming.

Silver Medal—Highest Standing in Canadian Constitutional Law:
Ronald Martland.

Bronze Medal—Highest Standing in French 55 (French Canadian
Literature): Florence Borden.

DIPLOMAS

FELLOWSHIP

THE LLOYD HARTNOLL BISHOP MEMORIAL FELLOWSHIP IN
ENGLISH LITERATURE
Horatio Henry Lovat Dickson.

FIRST CLASS GENERAL STANDING

IN AGRICULTURE

Fourth Year—B.Sc. Course: John Harold McLaughlin.

IN APPLIED SCIENCE

Fourth Year: John Joseph Taylor.
Third Year: George Sydney Field.

IN ARTS

Fourth Year: Loris Shano Russell, Marjorie Ashwell Race.
First Year: Marshall Edward Manning.

IN LAW

Third Year: Elmer Sam Manuel Wyman.
Second Year: Ronald Martland.

IN MEDICINE

Fifth Year Dentistry: John Wilfrid Gerrie, Whitmore Pipes Calhoun.
Third Year Dentistry: Roy Clarence Thorpe.

PRESENTATION OF DIPLOMAS

DIPLOMA IN AGRICULTURE

Nance, William Theodore. Newsham, Luther.

DIPLOMA IN NURSING

Beach, Edith. Litster, Agnes.
Clements, Loraine. Mallory, Kathryn.
Hawrysh, Doris. Smith, Jean.
Kallman, Hannah.

DIPLOMA IN PHARMACY

Boylan, John Harold. Hedderick, John Bruce.
Bryan, Willoughby Charles. James, Herbert Cecil.
Bullock, Gerald Frederick. Millward, Thomas.
Caldwell, David Byron. Moderwell, William Easson.
Dawson, James Albert. Pauls, Victor Albert.
Edwards, Gordon. Steeves, William Burpee.
Fedorchuk, Panko. Shore, Laurence McCourt.
Halliday, Robert Frederick. Waterbury, Harold Edmund.

DIPLOMA IN PUBLIC HEALTH NURSING

Grant, Olive, R.N. Watherston, Olive Fell, R.N.

UNIVERSITY OF ALBERTA

ADMITTED TO THE DEGREE OF BACHELOR OF ARTS

Adam, Beatrice Monica (with Second Class Honours in History).	Stewart, Harriet Ellen (with Second Class Honours in French and Latin).
Austin, Myra Katherine.	Taylor, Gwendolyn Gertrude.
Bell, Frances Isobel.	Thrasher, Mildred May.
Borden, Florence (with First Class Honours in Modern Languages).	Werthenbach, Dorothy Esther (with Second Class Honours in History).
Butler, Eugenie Louise (with Second Class Honours in English).	Williams, Eleanor Mae.
Calhoun, Inez Lucia.	Wood, Henrietta Elizabeth.
Capsey, Mary Ernestine (with Second Class Honours in Mathematics).	Auxier, George William.
Coone, Wilma Margaret (with unclassified Honours in Latin and French, and in Latin and German).	Begg, Gavin.
Craig, Carman Dixon (with Second Class Honours in English).	Bullock, John Thornton.
Cumming, Irene (with First Class Honours in History).	Carlson, Carl Emmanuel.
Gazley, Berta Claire Victoria.	Caspar, Jacob (with First Class Honours in Classics).
Hinke, Lydia Margaret.	Chappel, Nelson Thomas.
McCallum, Josie Janet Sinclair.	Dickson, Horatio Henry Lovat (with First Class Honours in English).
McCray, Armina Jane.	Harback, Frank Roxburgh.
Miller, Esther.	Harris, Joseph Edwin (with First Class Honours in English).
Moorhouse, Josephine Franklin.	Henderson, Russell Douglas.
Newhouse, Eva (with Second Class Honours in French and Latin).	Klinck, William Raymond (with Second Class Honours in Classics).
Newhouse, Lottie.	Liesemer, Aylmer John Eggert.
Nichols, Erma Lucile.	Lyle, Guy Redvers.
Nix, Mabel Naomi.	MacKenzie, Kenneth Currie (with Second Class Honours in English).
Roberts, Margaret Myfanwy.	Morrison, Donald McLean.
Robinson, Thelma Berkeley.	Peterson, Edwin Nestor.
Rudolph, Marion Nancy.	Philp, Clarence Wendell.
Secord, Imogene.	Pratt, Kenneth Ewart.
Shillington, Frances Anna.	Scarborough, Charles Morton.
Simenstin, Goldie.	Stuart, Charles Eric.
Smith, Edith Irene.	Weinlos, Chaim Wolf.
	Wright, Robert James Legate.

ADMITTED TO THE DEGREE OF BACHELOR OF ARTS, AD EUNDEM

MacLellan, Winifred Hope.	Longmore, Roderick Hector.
Vincent, Sister Teresa.	Ogden, John Francis.
Eddy, Earl Bronson.	Schneider, Reinhold.
Goresky, Isidore William.	

ADMITTED TO THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE, AD EUNDEM

Hay, W. D.	Newman, Arthur.
Leggatt, Cyril Wilmer.	Palmer, Asael Exile.

DEGREES

ADMITTED TO THE DEGREE OF BACHELOR OF COMMERCE

Kellam, Daisy Rosamond.	Glass, Lester Smith.
Matthews, Mary Elaine.	Kellam, Elmo Claude.
Culver, Edward Stanley (with First Class Honours in Political Economy).	McAra, John Beattie.
Davies, William John.	McEwen, Kenneth Milton.
	Nielsen, Jens Bernhard Ditlev.
	Willis, Arthur Robert.

ADMITTED TO THE DEGREE OF B.Sc. IN PHARMACY

Carlisle, John Abner.	Goldberg, William David.
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ADMITTED TO THE DEGREE OF B.Sc. IN HOUSEHOLD ECONOMICS

Deane, Madge Rideout.	Osborne, Phylis Grace.
Fanning, Geneva Mary.	Race, Marjorie Ashwell.
Folkins, Jean Elizabeth.	Young, Dorothy Selfridge.

ADMITTED TO THE DEGREE OF B.Sc. IN ARTS

Craig, Dorothy Dixon.	Irwin, Frederick Paget.
Jamieson, Ida Marion.	Jewitt, Walter.
Weir, Marjorie Fraser.	Klingaman, Glenn William
Allin, Eardley Samuel.	Macaulay, Murdoch Grant.
Barnett, Bernard John.	Morrison, John Gilchrist.
Boyd, Robert Wallace.	Reiber, Harold George (with First Class Honours in Chemistry).
Brown, Charles Bruce.	Russell, Loris Shano.
Caley, John Fletcher.	Thomson, Robert Kenneth.
Chambers, Allan Langmuir.	Tinkham, Ernest Robert.
Conquest, George Rienzi.	Watt, Reginald George.
Crang, Charles Lane.	Woodford, Raymond Sven (with First Class Honours in Physics).
Hamilton, Reginald Clarence.	Wright, George Edwin Kinney.
Hargarten, Benedict Wilfrid.	
Harwood, Robert Unwin.	

ADMITTED TO THE DEGREE OF BACHELOR OF LAWS

Adam, James Don, B.A.	Johnson, Horace Gilchrist.
Bloor, William Gordon Keen, B.A.	Marshall, John Campbell McKinnon
Bright, Aubrey Harry, B.A.	Morrison, John Alexander.
Cairns, James Mitchell, B.A.	Mitchell, Robert Richmond, B.A.
Campbell, Amadeus Damian.	Ross, William Stanley, B.A.
Cameron, Donald Murray.	Shabaz, Robert.
Cromarty, William Bramwell, B.A.	Tavender, Edward Rusling, B.A.
Cross, Edwin Edmund, B.A.	Wilson, Ernest Brown, B.A.
Davies, Percy Griffith, B.A.	Williamson, James Owen, B.A.
Henderson, Russell Douglas, B.A.	Wyman, Elmer Sam Manuel (with Distinction).
Hyndman, Louis Davies.	
Harrison, Robert Henry Charles.	

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Crawford, Daniel James McGregor.	Nix, Harold Leake.
Davies, Charles Edgar.	Rawlinson, Herbert Edward.
Flater, Nathan Frank.	Sprague, Percy Harry.
Haworth, George Clarence.	Tallman, Frank Ford.
Hollies, Edward Gardiner, B.A.	Verchomin, John.
MacDonald, William Alexander.	Wilson, Andrew Russell.
McKenzie, Charles Hugh.	

ADMITTED TO THE DEGREE OF DOCTOR OF DENTAL SURGERY

Ahrens, Arthur Christian.	Gerrie, John Wilfrid, B.A.
Burstein, Joseph.	Smith, Lister Emslie.
Calhoun, Whitmore Pipes, B.A. (Acadia).	Sutherland, Gordon D.
	Wilkinson, Egbert.

ADMITTED TO THE DEGREE OF BACHELOR OF SCIENCE IN NURSING

Alexander, Frances Elizabeth.	Macleod, Agnes Jean, B.A.
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ADMITTED TO THE DEGREE OF MASTER OF ARTS

Steele, Ethel Mildred, B.A.	Reilly, Charles Frederick, B.Sc.
Frame, William Edward, B.A.	Schneider, Reinhold, B.A.
Jeffery, Charles Vernon, B.Com.	Stephens, Sydney Campbell, B.Com.
Oke, David Jason Wesley, B.A.	Swift, William Herbert, B.A.
Putland, Arthur Kingsley, B.A.	

ADMITTED TO THE DEGREE OF MASTER OF SCIENCE

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Froman, Darol Kenneth, B.Sc.	Stacey, Clifford Earl, B.A.
Leahey, Alfred, B.Sc.	Thomas, Downs Hathaway, B.Sc.

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Lazerte, Milton Ezra, M.A.	

ADMITTED TO THE DEGREE OF B.Sc. IN CIVIL ENGINEERING

Drew, Alfred William.	Gale, Melvin Lambeth.
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ADMITTED TO THE DEGREE OF B.Sc. IN ELECTRICAL ENGINEERING

Kunst, Frank.	Moorhouse, Cecil Earl.
McPherson, Alexander Ferrier.	Willis, John Douglas.

ADMITTED TO THE DEGREE OF B.Sc. IN MINING ENGINEERING

Hunter, Harry Melville.	White, Clarence Edward.
Selnes Walter Engval, B.A.	

ADMITTED TO THE DEGREE OF BACHELOR OF THE SCIENCE OF AGRICULTURE (B.S.A.)

Fetherstonhaugh, James Erland.	McFall, James Russell.
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PROFESSIONAL RESULTS

ADMITTED TO THE DEGREE OF B.Sc. IN AGRICULTURE

Edgar, James Edward.	McLaughlin, John Harold, B.A.
Fawcett, William Cornelius.	Roxburgh, Douglas Brant.
Holmes, Cecil Randolph Macdonald.	Syrotuck, Michael.
Kindt, Lawrence Elliott.	Wilson, Byron Harrison.

ADMITTED TO THE DEGREE OF BACHELOR OF HOUSEHOLD ECONOMICS (B.H.Ec.)

Shearer, Alice Emma.

ADMITTED TO THE DEGREE OF DOCTOR OF LAWS, HONORIS CAUSA

The Honourable William Egbert, M.B., M.D., C.M.,
Lieutenant-Governor of Alberta.

The Honourable Nicholas Dubois Beck, LL.B.,
Chancellor of the University.

PROFESSIONAL RESULTS

The following persons have passed the examinations for license to practise, conducted by the University on behalf of the Affiliated Professional Societies:

IN SEPTEMBER, 1926

NURSING:

Aronson, Elsie.
Baird, E. Jane.
Bannen, E.
Brown, J. McM.
Brown, B. A.
Byjorkgren, H.
Cowen, Grace.
Creswell, J.
Christie, E. A.
Daly, K. M.
Eastman, R. L.
Fenton, J. M.
Folkins, M. H.
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Henderson, A. P.
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Lee, Ruth S.
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Miles, F. B.

Morris, B. C.
Melsted, V.
Mullen, M. M.
McColl, Annie T.
McDonald, T.
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McGillivray, Anna M.
McNaughton, E.
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Ward, R. M.
Wright, E.
Wheatley, M.
Witts, Delia.

PHARMACY:

Henry, W. A.

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IN DECEMBER, 1926

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Lucas, W. L.

Smith, F. A.

IN JANUARY, 1927

LAND SURVEYING:

Humphreys, W.

IN MAY, 1927

ARCHITECTURE:

Branton, W.

DENTISTRY:

Sheehan, E. J.

OPTOMETRY:

Thomas, J. E.

PHARMACY:

Waite, J.

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Boulton, H.
Bowman, P.
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Hickey, E. M.

Marrs, E. M.
MacDonald, M. I.
McDonald, A. Q.
McMurray, M. E.
McKee, A. C.
Paterson, M. C.
Percival, K. D.
Popson, C.
Reid, F. E.
Robertson, D. M.
Roy, E. M.
Short, A. M.
Soames, M.
Surerus, L.
Stoness, A. L.
Stuckey, V.
Scotter, S. E.
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